



FORMULA STUDENT 2008

JUDGES

WHO'S WHO

Simon Adams*Graduate Engineer*

Atkins

Nottingham University 2002 – 2006 MEng (Hons) Mechanical Engineering Final year group development project (3 other team members) to compete in FS 2006 Class 1. Car finished 27th in class compared to 39th previous year, despite engine failure in sprint, resulting in overnight engine transplant (kindly donated by Oxford Brookes), 42hrs with no sleep! Now working in Bristol for Atkins, as part of the defence systems graduate scheme.

Ayotunde Adebajo*Mechanical Capabilities Graduate*

Sellafield Ltd

Graduated from the University of Liverpool in July 2006 with a Masters in Mechanical Engineering. I have participated as a student in both the 2005 and 2006 formula student competitions. Currently I'm working for Sellafield Ltd as a mechanical capability graduate engineer, in which my area of focus is mainly design.

Ahmed Al Saffar*Instructor in Motor Vehicle Division*

Bahrain Training Institute

I was in the FS team of my university 2006 & 2007 (University of Central England). I am really interested to look at special FS design with a strong and good finishing body for the vehicle. In addition, not only the design shape is matter but the safety is important as well. Everybody involved in FS loves speed but let us reduce the emissions in our vehicle and that is what we are looking at in the new generation.

Murat Ali*Aerospace Engineer*

Alstom Aerospace

I have a masters degree in Mechanical Engineering. I have carried out various projects on Formula Student vehicles and was project leader for the Brunel Racing Team in 2006 for the Formula Student and Formula ATA (Italy) events. I found all the events very interesting and memorable. I would like to keep my links with FS/FSAE by becoming a judge and offering the support to FS after it has given so much to me. I have always loved all aspects of the motor car and aeroplane since I was a child and have a keen ongoing passion for motorsport.

Neill Anderson Chief Design Judge*Technical Advisor*

Commission for Taxi Regulation

Chief Design Judge for last 5 years. BSc Automotive Engineering Loughborough. Designed and built various TVR road and race cars. Joint winner of Design Council Award 1993 for TVR Griffith. Experienced motorsport competitor, British Sprint Leaders Champion 1995 and 1996. Supporter of anything that gives students real world experience, FS is a great event.

Robert Andrews*Cost Estimating Process*

Ford Motor Company

With FORD Mo Co 28 years, qualified development toolmaker, various Product Cost Estimating & Prog Finance analyst responsibilities within Europe and North America currently Process & procedures responsibilities. Main Motor sport Interests F1, Motorcycle Trials & GP's.

Charlie Atkinson*Rotating Equipment Engineer*

Shell UK Oil Products

Having graduated from The University of Sheffield with a Masters of Engineering, I have started a graduate engineering program with Shell UK Oil Products as a rotating equipment engineer, for my first assignment. My first professional role requires me to work within a team that determines the effective operational condition of large turbo-machinery and develop maintenance strategies, which would allow the equipment to deliver the required operational reliability. Then we would project manage a planned a shutdown to refurbish the equipment back to an optimal state of asset integrity. I have previously worked on an FS car at University, focusing on the dynamics of the suspensions system by FE modelling.

Graham Bailey*Cost Control Manager*

Tesia Motors

Graham's spent many years managing cost. Previous positions include:

- Goodrich Power Systems - Program Sourcing Manager
- Lotus Cars - Cost Engineering Manager
- Yazaki Corporation - Product Cost Supervisor
- M.I.R.A. – Exec. Engineer (Bus. Dev. Group) / Project Manager (Vehicle Programs)
- DAF Group - Cost Estimating Manager
- BL Group - Senior Industrial Engineer

Graham's also a member of the Network of Excellence in Affordability Engineering at Cranfield University and the Association of Cost Engineers (Engineering & Manufacturing Committee)

Graham and his wife Linda live in Suffolk and enjoy spending free time with family and travelling.

James Barry*PMST Team Leader*

Jaguar Land Rover

Having graduated with a Masters Degree in Engineering Design from the Univeristy of Warwick in 2002, I started working for Jaguar Land Rover as an interior trim engineer. I was part of the team that developed and launched the Jaguar XF and am now working on Jaguar Land Rover's future model architectures and on best-practise design. I have been involved with the IMechE for a few years now and currently sit on the Automobile Division Board, am Honorary Treasurer for the Coventry Automobile Division Young Members Panel and one of this year's IMechE President Apprentices. In my spare time I am a keen surfer and mountain biker and follow Formula 1.

John Beardmore*Automotive Consultant*

Beadmorbros

Designed and built my own space framed car with very few facilities. This included: suspension geometry, steering, braking, engine tuning & building, spaceframe design and optimisation, electronics, carbon bodywork. In other words I did everything! See www.beardmorebros.co.uk Previous design judge team leader. Working in vehicle safety, I crash cars!

Peter Bell*Director for ITS*

Grontmij Ltd

Peter Bell is Grontmij's Divisional Director for Intelligent Transport Systems. He recently joined from the technology consultancy, Cambridge Consultants. At Cambridge Consultants he was Commercial Director for Automotive and Transport where he led projects developing new systems for cars including Cambridge Consultants' innovative automotive radar. He was also responsible for Cambridge Consultants' work for the Highways Agency. Peter is a software engineer by training with a PhD in image processing.

Vikki Benn

Account Director

Mediatech Direct

Have been in charge of the dynamic Event Scoring for the past 4 years at FS.

Dr Ed Berry

Diesel Calibration Engineer

Ford Motor Company

Studied Mechanical Engineering at the University of Manchester (1996-2000). Completed a PhD focusing on diesel emission prediction and the development of a novel Diesel Particulate Filter. Currently a Diesel Calibration Engineer at Ford Motor Company where I have been for 3.5 years. I enjoy off-road driving and repair/maintenance of my Land Rover and riding my motorbike. I enjoy watching/following F1. I was a Design Judge at FS 2006 & 2007.

Neil Blackmore

Analyst

Capital Group

An automotive enthusiast with an engineering background. (HND General Engineering, Degree in Digital Systems Engineering - University of Kent) Experience in production environment (CNC tight tolerance machining) for both aviation & land based vehicle components (FR Aviation). Currently work in finance as an investment analyst which encompasses proposal presentations, project costing and analysis of commercial merits. An inquisitive engineer with an amicable and business savvy persona.

Anthony Blackwell

Project Engineer

Ricardo UK Ltd

Since graduating from Cardiff University with a MEng in Mechanical Engineering I have been employed by Ricardo Transmissions. My current role involves cooling system analysis, vehicle gearshift quality assessment, business development, and selling a Ricardo developed equipment package to major OEM's for their own shift quality assessment. Previously, I have worked for one year at Holset Turbochargers within aerodynamics, mainly focusing on product R&D. Through the 2006 FS event I was involved with the Cardiff Racing team attending both UK and Germany events. Team roles were project manager, cooling system and intake plenum design

Stephen Blakey

Retired

Graduated Loughborough University in Mechanical Engineering. Worked on competition engines at Weslake & Co. Then worked in Engine Engineering at Ford followed by PhD at Sheffield University in part Load Fuel Economy. Spent 8 years as senior lecturer at Sheffield Hallam University where I was course leader for Integrated Engineering with Automotive Studies. Ran one of the first Formula SAE teams in the country. Have judged Formula Student twice. Motorcyclist, kitcar builder

and Bentley Drivers Club member. Now retired and taken up show jumping. I am convinced that my one HP horse could win the straight line acceleration test!

Mike Bottley

Vendor Tooling Engineer

Landrover

I have worked in the automotive industry for 38 years. The majority of my time being spent on new model programmes. The rest being model maintenance, fixing things that have gone wrong in our supply base. I have developed a good understanding of the manufacturing processes used in the industry and the tooling which produces the components. I am a petrol head interested in all forms of engineering who also enjoys model making, hill walking and shooting.

Gerson Brand

CFD Engineer

Multicorpos Engenharia

FSAE Experience: 2003-2005 - EESC-USP Formula SAE team leader, brake system and aerodynamics design leader. Winner of Continental Teves Best-in-class Brake System Award at Formula SAE Competition 2005. Academic Background: Mechanical engineer with emphasis in aeronautics and currently studying PhD in vehicle the coupling of vehicle dynamics and aerodynamics. Professional Background: Simulation engineer at Multicorpos Engenharia, working with coupled dynamics and fluid dynamics simulation.

Mark Bridgeman

Senior Programme Manager

Johnson Controls

I have worked in the international motor industry for over 25 years. I have worked with different vehicle manufacturers in 8 countries on 25 product launches. Products include seat, airbags, seatbelts, steering wheels, actuators, headliners and door trims. Worked briefly for ONYX Formula 1 Team. Hobbies are watching motorsport (Rally & Hillclimb) and fellwalking.

Elliot Brinkworth

Assistant Director

Ministry of Defence

Elliot was a member of the Leeds University FSAE team in 2000 responsible for the design and analysis of the composite chassis. After graduation he joined the Ministry of Defence, spending time as a project manager for communications projects, working in the Department's centre of expertise for project management and as an internal management consultant. Elliot is currently working as the programme manager for a major change initiative and in his spare time is a keen mountain biker.

Andrew Brumley

Chief Program Engineer

Ford Motor Company

I have spent 15 years in Engine Engineering at Ford. My current position is Chief Program Engineer responsible for Ford's V8 Diesel programs. My first and only experience of Formula Student was a VIP guest at last year's event. I was very impressed with the excellence and enthusiasm of all the teams. Working in the Automotive industry, we all always keen to find young graduates who have relevant experience and delivering projects and Formula Student is the perfect opportunity for that.

Andrew Burston

Director

Flux Dynamics Ltd

After graduation in 98 I worked for Lola Cars as a design engineer. I have worked on Champ Car, LMP, F3000 and Grand AM. I was chief designer on the 0250 F3000 car, and this year's 0870 Grand Am Daytona Prototype. I am now self-employed as an engineering consultant looking to develop motorsport projects with a strong sustainability element. I will also be a technical judge at this year's Formula Hybrid event in the US.

Russell Burton*European Engineer*

Air Products Plc

An initial professional background of bespoke design, fabrication, and manufacture of equipment on Forklifts to be operated in explosive atmospheres - current developing profession in cryogenics, the storage of cryogenic liquids, the design of bespoke installations in remote European locations, conducting safety audits in Poland - no FS/FSAE experience - racing games on xbox360 - F1 and crime/thriller novels

John Busby*Company director*

BuzzProMororSport

Automobile Engineer built and raced professionally late 1960's to mid 1970's, now for enjoyment in Classic FFord 2000 with a Van Diemen RF82. Introduced to FS in 2007 via Jon Hilton of Flybrid Systems through the MiA.

Alan Caddy Chief Cost Judge*Manager Cost Estimating*

Ford Motor Company

I have worked in the Automotive Industry for 35 years in several different roles from Tool making/Manufacturing Engineer through to several roles in Finance. I am married with 2 children, my daughter is studying LLB Law at Brunel University and my son is in the process of taking his GCSE's.

Owen Carless*Development Engineer*

Ricardo UK Ltd

Class 1 Design Judge in 2007. FS competitor in 2005 and 2006 with University of Bath (Classes 1 & 3) with responsibility for; powertrain engineering, electrical systems, cost report, presentation event, and design event. Working for Ricardo in Analysis and Mechanical Development; responsible for analysis and test of engine and drivetrain components. Experience with Ricardo simulation software. Follower of motorsport and general automotive enthusiast.

Darren Cashman*Cost Estimator*

Ford Motor Company

Worked at Ford Motor Co for 20+ years areas include Manufacturing/Design & Development and Finance. I also studied at university whilst in full time employment and achieved a 2.1 (Hons) degree in Manufacturing Systems Engineering. I judged the 2007 FS event and supported various pre meetings with the chief cost judge and supported the 2007 Learn to Win event. I enjoy watching and follow almost all forms of motorsport.

Stuart Chamberlin*Technical Support Engineer*

Pi Research

I have been at Pi Research for almost 3 years, providing technical support to customers, covering a wide range of vehicles and series, including Formula 1, Sportscars, F3, Trucks, Boats.... I am responsible for design/commissioning of new solutions, assisting customers with test setup and post processing of data. I studied Automotive Engineering at the University of Hertfordshire, including a placement at TVR Engineering, graduating with a 1:1. During my time at the university I was a member of the Formula Student team - as head of suspension design and analysis - for two years, and was a member of the 2002 Formula Student Class 1 200 winning team.

Andrew Champion

Graduate Trainee

Alstom Power

I graduated from Aston University in 2003 having gained a BEng in Mechanical Engineering 2:2. For my final year project I designed the chassis for our Formula Student car. I am now on a Graduate Training Scheme with ALSTOM Power, within the Steam Turbine Retrofit department. I have always had a passion for motorsport and particularly enjoy the technology and performance of Formula One. The Formula Student experience was one of the best I've ever had, bringing together a lot of the modules I had studied at University. I still have close links with the Aston Team and really enjoy watching the progress the team make each year, both in terms of development and performance of the car.

Angie Clack

Retired

Angie has been a presentation judge for the F1 in the Schools National final at the NEC. Formerly Angie was a Tax Inspector with the Inland Revenue.

Geoff Clack

Education and Training

EEF Northern

A High School Engineering teacher for 32 years currently with Education and Training at the Engineering Employers Federation, Northern Association, who owns and restores vintage cars, motorcycles and aeroplanes.

Matthew Clarkson

Design Engineer

AVL Powertrain UK

I am a Engine Design Engineer working for AVL Powertrain UK. Engines specifically of the combustion kind have always been a massive passion of mine. I have competed in the FS event with Oxford Brookes last year. I am currently in the process in becoming chartered. Racing is also one of my favourite past times ever since I was young, I regularly participate in trackdays in a few cars that I have helped either build or have tinkered with the engine of.

Jez Coates

Managing Director

Coates Automotive Development

Technical Director at Caterham Cars from 23 years prior to setting up my own consultancy in niche vehicle engineering. Have been a Design Judge Team Leader for the last 4 years at Formula Student. Currently building my ultimate Caterham Seven in my spare time.

Robert Cockcroft

CAD Technician**Network Rail**

I work as a Cad Technician, my expertise ranges from manufacturing and fabrication techniques. I will be keen to see good use of CAD software, I am especially interested in detailed cad work. My Formula Student experience is based around the suspension systems, as such I will be looking closely at that area.

Ted Collett**Retired Aircraft Engineer****Airbus**

Professional experience:- Aircraft systems design, Installation design of Auxiliary Power unit, Laminar Flow research & design, oil cooled hydraulic heat exchanger installation design, Wankel engined generator set design. Engineering / Motorsport hobbies:- Design & build of kart based hillclimb car

Vincent Considine**Managing Director****Vee Solutions Ltd**

After a previous career in high technology engineering, Vincent Considine joined MIRA Ltd as Research Director where he led customer, their funded and internally funded product research and development. He later led all of their business development activity promoting MIRA's advanced technology worldwide. Dr. Considine formed Vee Solutions Ltd to support clients in managing research, exploiting technology and developing new products capitalising upon his 25+ years experience in high technology environments. Vincent has been supporting Formula Student as a Presentation Judge since 2003. Vincent has developed products and technologies, led business units and managed large engineering teams and brings this experience to his judging.

Neil Cooper**International Control Manager****Jaguar Land Rover**

Graduated in Automotive Engineering (Loughborough 1976), Chartered Mechanical Engineer since 1984. MBA from Warwick 1990. Engineering experience with British Leyland/Rover Group in thermal management, aerodynamics, brakes and safety systems. Recent cost control experience for Jaguar & Land Rover . Previously cost judge at FS in 2004 and 2006. General interest in motorsport plus automotive and aerospace technology for fuel economy. I am Treasurer for Birmingham Centre and an IMechE membership interviewer.

Nicholas Cooper**Consultant, Feature Engineer****Altran Tech UK, Ford**

Nicholas Cooper graduated from the University of California, Berkeley with a BS in Mechanical Engineering. He started his career in Detroit with Visteon in the Advanced Driveshaft Engineering group before moving to the University of Leeds to pursue a PhD in vehicle dynamics control, specifically active suspension and drivelines. He also got involved in Formula Student while at Leeds and participated in competitions in England, the US and Japan. Currently he is employed as a Consultant by Altran Technologies UK working for Ford at the Dunton Technical Centre as a Feature Engineer in Powertrain Control Systems Engineering responsible for driveability.

Jennifer Corbett**Technical Engineering Advisor**

Sellafield Ltd

I competed in the 2006 formula student competition after graduating from the University of Liverpool with a BEng (Hons) in Mechanical Engineering. I joined Sellafield Ltd shortly after working in asset care, I now work on plant as an Engineering Technical Advisor where I have to present plant modification proposals, risk assess and run breakdown/maintenance tasks. I am an associate member of IMechE currently working towards chartership. Last year I ran a young engineers club for a group of ten year 6 students and helped at an engineering awareness day hosted by a local secondary school.

Russell Crow

Graduate Mechanical Engineer

Network Rail

Team leader & driver for Lancaster's 2007 FS entry. Graduate of Forest Experience Rally School, interested in amateur rallying and racing. Currently working for Network Rail as a Graduate Mechanical Engineer in York.

David Crowther

Consultant Transport Engineer

I am a member of the Institute of Road Transport Engineers and by profession a Transport Consultant dealing predominantly with Specialist Vehicles (Fire and Waste Management) I also run a vehicle inspection service for users and potential purchasers. In my spare time I work on Classic Cars and am a Registrar for the Historic Sports Car Club dealing with Historic Road Sports Cars

John Dangerfield

Service Recovery and Planning

British Airways

I was part of Brunel Universities FS team in 2002, back in the distant glory days when we placed as the "best UK team" and 3rd overall. Since then I have worked for Siemens and now work for British Airways as a Service Recovery and Planning manager. I have also worked for the MOD and QinetiQ with a specific interest in composite materials and testing. I was the first FS participant to return as a Judge and this year will be my 6th year judging the Cost Event. In my spare time I enjoy skiing, but I am at my happiest with a spanner in my hand and a challenge.

Russell Davies

Durability Testing Engineer

Millbrook Proving Ground

Graduated from Brunel University, Mech Eng with Auto. Responsible for body panels design & manufacture for BR7 Brunel '07 entry for UK and Italy. Currently employed by Millbrook Proving Ground in Bedfordshire working in durability testing. In my department we test all components on complete vehicles through different dynamic tests covering every type of vehicle from initial prototype through to production.

Sam Davies

Development Engineer

Ricardo UK

Previous team member of Brunel Racing in 2006 working on the engine development, then took the role of Team Principal and Powertrain Group Leader for the 2007 Team. I am a graduate recruit for Ricardo UK, the largest and most reputable engine development and consultant company. I work in the Performance and Calibration department for diesel engines. I am a keen biker and like to break turbo's on my road car far too often.

Andrew Deakin*Head of Transmission Dyno Group*

Renault F1 Team

Founded the first European FS/FSAE team back in 1995. One of the founders of the Formula Student competition. In 2001 graduated from Leeds with a PhD in Vehicle Dynamics. Since then have worked at the Renault F1 Team and I am currently Head of the Transmission Dyno Group.

Rob Dewhurst*Associate Fellow*

Rolls-Royce plc

I work for Rolls-Royce plc (aerospace) and am an Associate Fellow in Whole Engine Structures.

I am a chartered member of the Institution of Mechanical Engineers, CEng, FIMechE and sit on the local area and regional committees. I have been involved in judging, organising and promoting Young Engineers for Britain competition for school children, and as a judge for the Engineering Education Scheme. I was an active participant in motorsport, building and racing a Formula Vee for a number of years, twice winning the annual best-prepared car award. Other hobbies include motorsport in general, food (eating and cooking) and wine.

John Eldridge*Principle Engineer*

Sellafield Ltd

John Eldridge is a Chartered Mechanical Engineer and Fellow of the IMechE working in the nuclear sector. Involvement with FS as design judge for many years. Lifelong interest in motorsport as a competitor and currently scrutineer on major UK events including the British GP.

Marvin Epton*Testing and Commissioning Editor*

Bombardier Transportation

My current job role is a Testing and Commissioning Engineering for Bombardier Transportation. I studied Automotive Engineering at Loughborough University and during my final year, I was involved in designing the car for the 2006 event. Last year I was a Cost Judge so I have now experienced Formula Student from both sides; as a competitor and as a judge. This year I am back for more!

Bill Ewin*Retired*

Ford Motor Company

After joining Ford in 1980 he was mainly in Finance and Cost Estimating activities for Power Train and Vehicle Operations which built on his Manufacturing Engineering background. Over the years he progressed through positions covering current and forward model programme development. Recently he was involved with creating a Artificial Estimating System used worldwide throughout Ford and was responsible for auditing a cost database that supports this system. He is a qualified Production Engineer and a member of the Association of Cost Engineers and now retired he is a consultant lecturer at Cranfield University.

Annalisa Fabiano*Design Responsible Engineer*

General Motors Powertrain Europe

I took part in F Student and FSAE ITALY competitions in 2005 (Politecnico di Torino) as Team Leader, engine designer, 3d fluidodynamic calculations and responsible for

static events. In 2006 I was involved as technical judge in FSAE Italy for technical verification, presentation event and fuel consumption controller during race. WORK EXPERIENCES: 2,5 work-years in IVECO (Fiat Group) in Product Engineering (Engine Design and Testing) and 6 months in General Motors, in Turin site, in Engine Design Department.

Tom Farrow

Calibration Engineer

MAHLE Powertrain

I graduated in 2007 from Bath University, having been involved with the powertrain development for the 2007 Bath Class 1 car. A keen motorcyclist at heart, Formula Student opened my eyes to the ways of 4 wheels and I applied for a graduate job at MAHLE Powertrain, where I have been working for the last 9 months. As a graduate Calibration Engineer I have been gaining experience both in the test cell and in-vehicle in areas from engine hardware development to mapping, emissions testing and on-board diagnostics.

Pedro Ferreira

Design Engineer

Applied Laser Engineering/Remitta Racing

I've been involved in motoracing since very young age, having raced Go-karts and achieving relevant results in the Portuguese National Championship. After completing an HND in Automotive Engineering (Northbrook College), I've graduated in Motorsport Engineering from Kingston University (Hons 2:1). Worked at 4GRIP - Suspension Design and Consulting (Netherlands), liaising and supporting two FSAE teams – Delft and Einhdoven. At the moment, Design Engineer at Applied Laser Technology and Race Engineer at Remita Racing (Ford UK National Championship). Also a keen cyclist and chef.

John Fisher

Managing Director

Fisher Marketing Ltd

John Fisher is a Chartered Electrical Engineer who in 1988 founded Fisher Marketing to provide PR and Marketing services to companies in the engineering and technology sectors. He has wide experience of motorsport, having marshalled at events from Formula Ford to Grand Prix over many years. He rides a Harley-Davidson motorcycle and is a great fan of Moto GP. He is a full member of the RAC and GRRC and is currently the Master of the Worshipful Company of Marketors, the City Livery Company for Marketing professionals.

Alan Flavell

Design Consultant

Trehan Design Studio

Trained engineer/designer. 35 Years in higher education re lecturer: Design (Mechanical Engineering) latterly motorsport (Semi retired 1996). Design Prinicipal: Trehan Design Studio (including Trehan Racing) Consultant in structures (motorsport) composites (hands on). Race single seat 600cc car (Bewley). Hill climbs/sprints. Member of British Racing Mechanics' Club. Researching Hybrids.

Richard Folkson

Consultant

Richard Folkson Automotive

Thirty years experience at Ford Motor Company in all areas of Engineering including Project Manager of first Ford Focus and previous model Ford Transit from 1994-1999. Most recently Chief Engineer with responsibility for standards at Ford, Jaguar,

Land Rover, Mazda and Volvo. Vice Chairman of the IMechE Automobile Division and visiting professor at the university of Hertfordshire Automotive Engineering Department. Restoration and competition in classic Ferraris since 1984.

Ian Fraser

Team Leader – ITS Futures

Highways Agency

Ian joined the Department of Transport in 1982 and currently holds the position of Team Leader, ITS Futures Development Team in the UK Highways Agency. The Highways Agency is an executive agency of the Department for Transport.

Ian graduated with The Open University in 1987. In recent years Ian has worked in the research and development of Driver Information Systems and Telematic Projects and leads a team of specialist engineers developing Intelligent Transport System projects, including the European Co-operative Vehicle Infrastructure Systems project. The CVIS project aims to design, develop and test the technologies needed to allow cars to communicate and network directly with the roadside infrastructure.

Darren Freeman

Aerodynamicist

Red Bull Technology

Like many engineering students I got involved with Formula Student during my time at University. After graduating from Loughborough University with a BEng in Automotive Engineering and at a later date an MSc in Motorsport Engineering from Cranfield University my experience has included time in both the automotive sector and motorsport. My current role working in Formula One offers a real world view point and as a member of the MSA with a National B racing licence I hope to be able to add a drivers point of view also.

Gilles Gardner

Design Engineer

Technip UK Ltd

I design flexible flowlines and riser systems for the North Sea oil industry. I was Team Leader and Suspension design lead for Memorial University of Newfoundland FSAE entry from 2000-2004. I follow almost all forms of 4 wheel motorsport, but particularly interested in historic motorsports.

Daniel Gilderthorp

Innovation & Development Engineer

Balfour Beatty Utilities

Daniel is an Innovation and Development Engineer, currently working for Balfour Beatty Rail. Hobbies include racing radio controlled model cars and cycling. Interests include Motorsport, in particular Touring cars, Motorcycling, Gumball 3000 and The Dakar Rally.

James Grant

Mechanical Analysis Engineer

BAE Systems

I was a member of the University of Nottingham's 2006 four man Class 1 team who were placed a respectable 27th overall in the competition. Despite blowing up an engine during the sprint event, the team returned on the Sunday and complete the endurance event! My main area of work on the car was on its suspension system. I now work for BAE Systems as a Mechanical Analysis Engineer. My work is mainly focussed in the field of avionics. This will be my first year as a judge at Formula Student.

Lindsay Griggs*Investment Administrator*

I am a Business Graduate currently working as an Investment Administrator at a large Investment Firm. I have been to Formula Student once before as a spectator.

Terry Griggs*Retired Cost Manager*

Ford Motor Company

40 years of automotive experience with Ford Motor Company in Manufacturing and Cost Engineering in Europe and North America. Involved in the development and launch of numerous new model programs on a global basis. Retired as Manager Cost Estimating in January 2007. 6 years as Formula Student Chief Cost Judge.

Geoff Grose*Head of Vehicle Development*

McLaren Automotive

2006 to date – Head of Vehicle Development, McLaren Automotive. Responsible for road car development, including vehicle/rig testing, safety systems, dynamics, certification, prototype workshops.

1994-2006 – Group Lotus. Senior project manager responsible for Tesla, Europa, Exige S2, Speedster turbo and other client programmes. Previously responsible for a range of consultancy vehicle development and safety programmes.

Early career at Rolls-Royce Motor Cars and Foden Trucks.

Design Judge 2005, 2006

Arpit Gupta*Aerospace Engineer*

Alstom Aerospace

Initiated and lead the first ever Asian/Indian entry in Formula Student in 2003, representing Delhi College of Engineering. Team won the best endeavour award in 2003. Team leader for the Delhi's 2004 entry also. Have been keenly involved with motorsport in India. Did a small stint with A1 Grand Prix Team India. Worked on development of antiroll bars for Leeds University FS team during masters degree. Currently working as an engineer with Alstom Aerospace within the projects team.

Richard Hale*Cost Estimator*

Ford Motor Company

Working in industry as cost estimator for 6 years, 1.5 years experience in Manufacturing Engineering. Extensive studies in engineering and estimating. Supported 2007 FS event as a cost Judge. Keen interest in engineering and motorsport since a young age. Member of enthusiast car club for over 7 years supporting events around the country at many motorsport locations including Silverstone. Build and race models cars as a hobby, also interested in cycling.

Peter Halstead*Mechanical Engineer*

Halcrow Group

Peter Halstead studied mechanical engineering at the University of Nottingham, graduating in 2006. He was part of the university's Formula Student team and competed in the 2006 class 1 event. The project was run as a group design project, with the team consisting of four final year students. Being a small team with limited resources presented many challenges. The aim was to build on previous teams' work to build a fast, reliable car. The team completed the 2006 event, finishing 27th overall. Peter now works as a consulting engineer for Halcrow Group.

Hannah Hammond*Systems Engineer*

Sula Systems Ltd

In 2005 I graduated from Loughborough University with a MEng in Automotive Engineering. During my degree I participated in Formula Student with the Loughborough Team, areas I worked on included suspension design, manufacturing the bodywork and the team finances. Since graduating I have worked for a Systems Engineering consultancy, working on a variety of defence and aerospace projects, including work on the A380 and the future MoD Armoured Fighting Vehicle (FRES). The majority of my work has been focused on the early stages of CADMID cycle. I have a keen interest in motorsport, especially Formula 1.

Jonathan Harper*Manufacturing Engineer*

Rolls-Royce

I took part in the Formula Student competition with the University of Nottingham in 2006, as part of a core team of 4, for my final year undergraduate design and make project. This represented the University's second year competing in the Class 1 event. Having completed the Rolls-Royce graduate training scheme, I have recently begun a full-time role in Manufacturing Engineering within the Defence Aerospace business in Bristol.

Bob Hart*Retired Aerospace Engineer*

Retired 2004 after >40 years in aerospace engineering with spells in design, test and manufacturing. My final job was assistant chief engineer responsible for design of modifications and continued airworthiness for Concorde and BAC 1-11 aircraft. In my leisure time I have been involved in motor sport as both a competitor, including a historic single-seater which I rebuilt myself, and, for the last 25 years, as an MSA licensed official. Familiar with motor sport regulations.

Mark Hassall*Graduate Engineer*

BAE Systems

I competed in Formula Student in 2005 & 2006 with the University of Manchester as the engine team leader focusing on the design of the engine air intake & fuel system. I graduated in 2006 with an MEng in Mechanical Engineering and started the 2 year Graduate Development Framework with BAE Systems, Land Systems. Having worked in several areas of the business I am currently on placement with the Fluid Dynamics & Ballistics department based in South Wales. I returned to FS in 2007 as a presentation event judge.

Mike Hayward*Director*

Transport Logic

Mike is past chairman of the IETs Automotive and Road Transport professional network and involved in the IET becoming a supporter of formula student. Mike is a chartered electrical engineer and has over twenty years professional experience gained within Automotive and Transportation engineering. In particular Mike was involved in early pre-competitive research with European car manufacturers into collision warning and avoidance systems, and the product development of Adaptive cruise control for Jaguar. During his career he has worked for Jaguar, Atkins, Hyder Consulting and Logica, and is currently Director of his own Transport technology and management consultancy company.

Alex Hickson*Composite Development Engineer*

Alex has a depth and breadth of experience in design, R&D and manufacture of composite components and assemblies from racecar's and 40m wind turbines to space applications. A former Technical Director of the University of Birmingham Race Team in 1999, Alex lead the team to compete in the US & UK. Working in Technical Operations at Lockheed Martin UK INSYS Alex now delivers key technical support as a Development Engineer and Certified Lean Six Sigma Greenbelt to Composites Manufacturing and Project Teams.

Jon Hilton – Chief Judge*Managing Partner*

Flybrid Systems LLP

Jon is now the Managing Partner of a company developing braking energy storage and recovery systems for racing cars. During the 2003,4,5 and 2006 racing seasons he was Technical Director - Engine Division at the World Championship winning Renault F1 Team. His previous experience also includes Chief Engineer posts at both TWR Arrows and Cosworth. Jon has previously been a design judge at FS and last year was his second as Chief Judge. Jon competes at an amateur level in his own turbocharged, motorcycle engined, single seater hillclimb and sprint car.

Phil Hodgkinson*Graduate Engineer*

Rolls-Royce

In 2007 I entered Formula Student as part of the Lancaster University team having primarily designed and built the Chassis; after which I joined Rolls Royce as a Professional Excellence Graduate Engineer. I really enjoyed the experience of FS as a participant and now hope to give something back to the competition through volunteering to help the judging process.

Adrian Holland*Consultant Engineer*

Frazer Nash Consultancy

Graduated from Loughborough University in 2004 having studied both as an undergraduate and for a PhD. During this time he was a key member of the first Loughborough University FS Team in 2003. Having completed his PhD in Engine Cooling systems, working alongside a major engine manufacturer. He now works for Frazer-Nash Consultancy as a senior member of the Aerodynamics and Heat Transfer group. A keen follower of motor sport, in particular the F1 and British GTs.

Helen Jackson*Attribute Leader Off Road Capability – Freelander*

Jaguar Cars Ltd

My interest in motorsport began at Leeds with the FSAE/Student project. Since then I successfully completed the MSc in Motorsport Engineering and Management at Cranfield including a thesis project on tyres for Team West-Tec. I won two championships with them in the SCSA series, and am now working with them as a data engineer in Spanish F3. My day job is working as the Off-Road Attribute engineer for Jaguar Land Rover with responsibility for the Freelander car line. I'm also the Chairman for the Coventry Automobile Young Members Panel of the IMechE.

Dan Jones*Development Engineer*

Flybrid Systems LLP

Competed in FS in 2006 Class 1 Uni. Of Herts as team manager, suspension/chassis designer and driver finishing 5th overall. After University I initially worked for Bentley as a suspension design Engineer, I moved to Flybrid Systems in June 07 where I work as a design Engineer on our flywheel hybrid system.

Gareth Jones

Senior Auditor

Ford Motor Company

I have judged at the FS event since 2000 and been amazed at how the event has grown in quality and stature.

My career with Ford Motor Company started as an engineering apprentice in 1980. During my time at Ford I have worked in the majority of automotive manufacturing environments starting with the Tractor Division! The latter part of my career has been focused on manufacturing cost reduction and process improvements and efficiency.

I have always been interested in cars and racing having graduated from Silverstone and Brands Hatch Racing schools and raced production saloon cars for 10 years.

David Kinnear

Engineer

WildeFEA

Graduated in 2007 with a MEng Distinction in Mechanical Engineering. Currently working for WildeFEA undertaking consultancy projects, training and support on a number of FEA packages for many different clients and industries. Am fascinated in the developing engineering and automotive technology especially in motorsport. Ran the entire FS entry for the University of Huddersfield in 2007, involving management, financial, engineering and personal skills to keep the project on track.

Andrew Lee

Graduate Engineer

Cummins Turbo Technologies

After completing an MEng in Motorsport Engineering, I was accepted onto the Cummins Turbo Technologies Graduate training scheme. Designing, testing, developing and manufacturing advanced turbochargers for a global market. My FS experience comes from 2 years on the Brunel University team, Brunel Racing. Interests include motorsport, trackdays and automotive engineering/tuning.

Jim Livingstone

Retired

Retired passenger car design and development manager. Past employers include Nissan, Ford and Rolls-Royce Aero Engines. Interests include study of automotive design history and current trends. Occasional leisure motorcyclist and former competitor in amateur rallies. FS judge since 2002

Peter Lunt

Manufacturing Engineer

Airbus UK

Peter Lunt is an IMechE President's Apprentice 2007/8 and has been heavily involved in the IMechE for a number of years. He works for Airbus UK as a Manufacturing Engineer specialising in the introduction of new technology to manufacturing processes.

Joan Majoer (Dutch dialect for John)

Senior Research Assistant

I am 55 years old. At 15, an old used moped was my present. I had to learn from scratch the engine and frame technology. From that time I am rebuilding vintage mopeds (I own 120+). I used redundant parts to make small bikes (min = 60CM). I joined a Dutch Moto-Cross league, from 1978 to 1985. For fun I build and race "demolition derby" cross cars. Now I am a moderator of <http://www.solex.nl>, racing mini bikes for fun. I still do build them myself, just finished a project building a 4-stroke. I was a design judge in 2007 and have judged in the Shell Eco Marathon.

James Marco

Lecturer/Msc Course Director

Cranfield University

James is a Chartered Engineer, a member of the Institution of Engineering and Technology and serves on the executive team for the IET Professional Network on Automotive and Road Transport Systems. After graduating from the University of Warwick with an Engineering Doctorate, James worked within the automotive industry on a number hybrid electric vehicle projects both within Europe and North America. James joined Cranfield University and the Department of Automotive Engineering in 2005. His research interests include; systems engineering, real-time control, physical systems modelling and the design and analysis of automotive control and software architectures.

Keith Martin

Lecturer

Open University

Held international racing license. Racing school trained, winner of school championships in Formula Ford and Saloons. Competed in Clubmans-sports, experienced in track and wind tunnel testing. Project Manager of Aston Martin Bulldog, 200 + mph prototype, in charge of design, development and testing. Restored Group 6 sports-racing car driving personally to class championships in European Sports Prototype , International Supersports and World Sports Masters Series. Co-prepared ex-works Lister-Jaguar, Cooper-Climax F1 and Osella-Cosworth F1 cars in historic racing. Consultant to Oxford Brookes and Cranfield University Motorsport groups. Design Judge for Formula Student in 2004 - 2007 incl. Chartered Engineer, Fellow IMechE.

Juan Ramon Martinez

Service Director

Clece

I'm an industrial engineer, with an automotive master, graduated in Universidad Politécnica Madrid. I participated in Formula Student three times, and I was UPM Racing Team Leader during 2 years. Now I'm using all the knowledge that I learn in Formula Student in Services Management. I love motorsport because you can everyday learn about new engineering applications.

Chris McCaw

Project Engineer

Honda R&D

I was involved with FSAE during an exchange year to the University of Illinois in the US for the 3rd year of my Mechanical Engineering degree and saw first hand the international level of competition at that year's final (only 3 UK teams took part). Since then FSAE has become more popular but I graduated and moved on to a career with Ford Motor Company. I moved round Body, Chassis and Vehicle Package engineering departments and covered a number of different vehicle programmes before moving on once again to my current position as a Chassis engineer with Honda R&D.

Sean McGrath*Finance Analyst*

Ford Motor Company

I started my automotive career with Ford Motor Company and completed a 4 year mechanical/electrical apprenticeship. I finished my apprenticeship and gained one of the top ten positions in my year and was placed in the machine shop at Dunton technical centre. I spent two years gaining a manufacturing background within that department and then gained a position in the Cost Estimating department within Ford. I have been a Cost Estimator for seven years and was promoted to Senior Cost Estimator in 2002. I am now a TVM Finance leader within the Finance department of Ford Motor Company. Qualifications: MSc in Cost Engineering/ BA Hons in Business Studies & HND in Engineering. This will be my third year as a cost judge at FS and I am looking forward to discussing and judging all of the varying applications and seeing the new university entrants. Hobbies & Interests include Golf, Cycling, Football and the gym. I have an great interest in all kinds of motorsport and I am an avid follower of the Formula 1 championship.

Ben Michell*Senior Development Engineer*

Dunlop Motorsport

I competed in two UK Formula Student events, plus one FSAE-A and one FSAE in Detroit as part of Birmingham University. I designed suspension systems for two cars and was Technical Director in my final year. I moved to Dunlop Motorsport after graduating and spent two seasons as a data analysis engineer for the MotoGP development programme, attending all races and tests. This season I have switched to the Le Mans Series and act as trackside tyre development engineer for the ASM Lola Team.

Tom Miller*Design Engineer*

CDMS WA

5 years in FSAE at UWA Motorsport - Technical Director 2006/7, Engineered Formula Fords for Western Australian championships, currently consulting design engineer to WA mining and energy industry.

Dario Minutella*Track Support Engineer*

McLaren Electronic Systems

I studied Automotive Engineering at Politecnico di Torino (Italy). I was amongst the founders and Marketing Manager for Squadra Corse Politecnico di Torino (Formula Student 2005). My experience as F1 Track Support Engineer started on November 2005 in Magneti Marelli Motorsport (supporting BMW Sauber F1 Team) and then continued working for McLaren Electronics Systems Ltd, the company for which I am working at the moment, supporting Vodafone McLaren Mercedes at F1 races for the FIA Standard ECU and for telemetry systems.

Adrian Mitcham*Chief Engineer*

TRW Conekt

Chief Engineer for the consultancy group of TRW Conekt, working in areas of steering, braking, safety and driver assistance technologies. Over 20 years of prior experience in vehicle electrical engineering with Jaguar and in automotive consultancy.

James Montgomery*Graduate Engineer*

Rolls Royce plc

I studied mechanical engineering at the University of Warwick, and was involved with the Formula Student programme throughout my degree. In my third year I conducted a feasibility study on the use of the laboratory wind tunnel to study ground effect aerodynamics, and went on to be Programme Manager of the 2005 team. I therefore have a broad understanding of the challenges involved in funding, designing, building and operating a Formula Student car. This is my second year on the Formula Student judging team.

Ian Murphy*Freelance Motorsport Engineer*

I have 10 years experience in Formula 1, initially with Arrows and more recently with Williams F1 where I was responsible for the technical operation of an F1 car at tests. I've supported Formula Student since 2001 as a Design Judge and recently presented on Test and Development at the Learn to Win events. Currently I am a freelance Motorsport engineer and have worked on a variety of projects including F1 KERS systems and an LMP2 class track day car.

Arkadijus Nikonovas*Tech. Improvement Advisor*

Shell Deutschland Oil

Graduated in mechanical engineering in 2002, then received PhD in 2006. Currently working as a mechanical engineer at Shell in the energy production unit. Responsible for optimisation of fuel burning systems and the flue gas-cleaning unit. Special interests include optimum use of energy, NDT and fault analysis.

John Nixon

Retired

Ex Cranfield University

I have been a university lecturer and researcher for 30 years, initially dealing with problems relevant to the offshore industry, and since 2000 being one of the course team for the Cranfield University Motorsport M.Sc. Course. I have been a judge at FS since its inception in this country, initially as a design judge, but for the last few years as a cost judge. I have been involved with many motorsport formulae, but have designed, built and raced short oval cars, mainly stock cars and hot rods, since the 1960s. I retired from racing in 2001, but continue to build and test Formula 2 stock cars.

Michael Odenwald*Supervisor Team Value Management*

Ford Werke GmbH

Degree in Mechanical Engineering. With Ford now for 13 years, working within Engine Engineering, Cost Estimating, Teardown & Benchmarking and Finance. Present position is Finance Leader within Team Value Management (TVM) - TVM consists of cross-functional teams with experts from Engineering, Purchasing, Cost Estimating and Finance, looking for cost reduction opportunities on current models and supporting the forward model teams in developing affordable components

Martin Ogilvie*Prototype Car designs*

Lotus F1 Chief designer in 1980's. Then freelance designing for various companies/individuals - BTCC, LeMans, F3, road sports, and more recently hillclimb

single-seaters with bike and F1 engines. Currently attempting to design/fund 600hp electric hillclimb/sprint car

Jonathan Page

Design Engineer

Ilmore Engineering

Currently a Graduate Design Engineer with 18 months experience at Ilmor Engineering, (Ilmor run Honda's indy Car engine programme). Competed in Formula Student for Imperial College London in 2004 and 2005. In 2005 I designed the intake system for the turbo-charged engine and was part of the team who recorded Imperial's highest result in FS.

David Paramo

Engineer

Bombardier Transportation

Having graduated from Brunel University in 2002, I began teaching both Electrical and Mechanical at Leeds College of Technology in a diverse range of modules ranging from Fluid and Thermo Dynamics to Electrical Installation and graduating from Leeds University as a qualified teacher. I then joined Bombardier Transportation in Derby with their Services Division undertaking numerous projects on various different vehicle types around the country.

Sarswati Patel

Powertrain Finance Analyst

Jaguar Cars Ltd

I have been working as a finance analyst for Jaguar Land Rover for the last 6 years. I started working in Manufacturing in Consolidation and Reporting and have now moved to Product Development into Powertrain Finance for future Land Rover Models. I have previously judged for Formula Student for 2 years.

Neil Paxman

Estimating Supervisor

Ford Motor Company

I have spent my entire working life with Ford Motor Company Ltd (28yrs) starting as a maintenance/tool fitter then progressing into various staff positions in manufacturing, finance & cost estimation where I am currently supervising a small team of Estimators and Finance Analysts. I am interested in all forms of motorsport and have competed in Banger racing and Karting (endurance and 100cc 2-stroke sprint) with some success. My current hobbies include model car racing and DIY.

Gareth Pemberton

European Quality Control Engineer

Air Products

In 2003 I wrote a dissertation on improving volumetric efficiency on a FS racing car - the main restriction to the power output of the engine. 2003/4 season I competed with Warwick university designing the intake system, part of the drive train & suspension system, assisting with electronics and looking after the build of car. I was also responsible for sponsorship and events organization. Since graduation I have worked for Air Products on control systems, project management and quality control recently being appointed as the Quality Manager at our Global Electronics and Speciality Gases Plant. I have a strong interest in motor sport and continue to work on maintaining and upgrading a classic mini.

Matthew Pike

Design Engineer

MTCe Ltd

Designed suspension uprights for Brunel's entry into the 2006 Formula Student Event. Design Engineer for automotive tier-one supplier, responsible for GM projects designing mechanical systems for body closures.

Samantha Pothecary

Research and Development

dieselgas

Recently graduate with a first class Bsc Automotive Engineering with Management (Hons) degree from the University of Hertfordshire. Throughout each of the years I have studied I have been involved in the formula student competition. I was part of a very dedicated team throughout my first couple of years at University and was involved in all aspects of our entry from design, manufacture, static's and driving. I feel the competition experience help me gain my placement position at Prodrive for my 3rd year and aided my successful completion of my degree. I am currently developing an LPG diesel blend fueling system to lower fuel consumption costs to HGV vehicles.

Craig Powers

Control Engineers

GCOpt

I am chartered control engineer within the power generation industry, with electrical / mechanical qualifications. I run an 1100cc bike engined single seat hillclimb / sprint car as a hobby, doing all the work myself so have practical experience of modifying, maintaining and competing such cars. I have been involved with FS UK since 2003, and FS Germany in 2006.

Roger Ratley

Diagnostics and Service Products Manager

Ford Motor Company

Southampton University Mechanical Engineering graduate (MEng) with 16 years of technical and latterly managerial experience in the motor industry covering engine control systems, powertrain project management, vehicle programme and launch management and most recently diagnostic system design, development and support in my current position as Diagnostics Manager for Ford of Europe. I am an MSA Scrutineer and have the technical responsibility for Formula Ford in which I have been involved for 13 (originally as a competitor and latterly as a technical adviser) I am a Chartered Engineer and member of the IMechE and Essex Centre Automobile Division committee member. Interests outside of work include motorsport photography, and sprinting my Caterham Se7en.

Michael Reid

Consultant

Centre for Sustainable Engineering

Michael is Technology Director at the Centre for Sustainable Engineering. My role there is to assess sustainability of candidate technologies and assist in preparation of business cases prior to investment and commercialisation. He is a fellow of the IMechE and vice Chairman of the Energy Environment and sustainability Group there. A newcomer to Formula Student, he has followed the event for some years and is constantly impressed by the skill and professionalism of the entries. It is indication of a dynamic and interesting future for engineering.

Dave Reuss

Cost Engineer

Rolls Royce plc

Dave Reuss BSc MSc C.Eng FACostE - FS 2008 will be Dave's forth year of involvement at judging Cost Reports. Although his experience is centred around the Gas Turbine business operations at Rolls-Royce plc, many of the processes and cost modelling, cost analysis and cost reduction or avoidance methodologies used in his business are common to that used within the production automotive market.

Cameron Ross

Design Team Leader – Trent 100 Transmissions

Rolls Royce Plc (aerospace)

Whilst at the University Cameron provided much of the groundwork to set up the UK's second FSAE team. He spent his summer vacations with both the Lister Storm racing team where he was the 're-fuelling man' for Le Mans 24 hour race, and in the press shop of 'LTI' who manufacture the London Taxi.

He graduated from Birmingham to work at Cosworth Racing. He worked on all major international race programs and a number of road car projects including the Aston Martin Vantage and Caterham 260bhp road car engines. Cameron joined Rolls-Royce in 2005 where he is a Design Team Leader for the Trent 1000 transmission. Cameron is still closely involved in Formula Student, for which he was one of the founding committee members, and can be seen both scrutaneering the cars and managing the track events.

Claude Rouelle

President

OPTimumG LLC

OptimumG LLC is a company that specializes in racecar engineering education, simulation software development and consulting in suspension design, kinematics, tire modelling, aerodynamics, damping, on track testing, data acquisition and vehicle dynamics simulation.

One of the services OptimumG provides is public and in-house seminars conducted by the company president, Claude Rouelle. Clients include Ferrari F1, Toyota F1, Michelin, Goodyear, Bridgestone-Firestone, Penske, Dynamics, Sachs, Peugeot, GM, Ford and Chrysler.

Gerard Sauer

CEO

AFC Energy Ic

Studied automotive engineering in Holland and Germany specialising in internal combustion engineering. Came to the UK and started ADA Engineering in 1971, later in 1979 started Automotive Consultants and became involved in the late 80's in the electric drive and hybrid drive systems and fuel cell integration business. Now CEO of AFC Energy plc a low cost fuel cell manufacturer in West Sussex nr Guildford. Career highlights: won 5 National championships whilst running ADA engineering in Saloons, Sportscars, and Monoposto, engineering and preparing the cars. Won 2 National Championships one with Ford in GRP N and one with Mercedes Benz, the first National Championship Daimler Benz had won since 1957. Designing and building the very first Low Carbon bus in Europe. Designing and building 5 Fuel cell powered vehicles.

John Saville Chief Presentation Judge

Consultant

John retired after working for Ford for 30 years in Europe and US, mainly delivering IT solutions for plant floor, CAE & CAD/CAM. His final assignment was as IT Director/CIO of the Jaguar Racing F1 team. He heads up the IET participation in FS, in particular the judging of Awards for Effectiveness and Innovation in Electronics. He has been a presentation judge at FS, FSAE, & Formula Hybrid organised Low

Carbon Demonstration event at FS2007 and is a member of the Class 1A Working Party.

Mike Sayer

Development Engineer

Bentley Motors Ltd

After four years on the Imperial College London FS team, working up from a lowly mechanic to Technical Director in 2005/06, I now work at Bentley Motors as a Development and Calibration Engineer for the V8 engine. The experience I gained through FS has been very valuable in my working career, building on the knowledge and experience acquired through leading engine development on the Imperial cars. Outside of work, I am a passionate motorsport enthusiast, as a fan of F1, ALMS and endurance racing, and WRC. I am also currently preparing a BMW E30 325 for track use and racing.

Arjen Schulpen

Mechanical Engineer

Shell

Graduated in Aerospace engineering in 2005, currently working as a mechanical engineer at Shell. Besides a general liking to anything that has an engine (or can have an engine constructed in it), I've competed in the FS competition with Delft University in 2002 and 2003.

Dean Scott

Detail Designer

Williams F1

Following undergraduate studies in Automotive Engineering at Loughborough University I continued as a postgraduate student and in 2000 set up the Loughborough University Formula Student Team, taking on various roles including Team Leader and Chief Designer covering 3 cars in total.

I have always been interested in motorsport and Formula One in particular. Formula Student was a great learning exercise and thanks to the experience gained through it I was employed by Williams F1 as a design engineer in the composite structures group, where I have been since March 2006.

Jeremy Sibson

Senior Project Engineer

Honda R & D Europe (UK) Ltd.

I graduated with a BEng in Mechanical Engineering from Brunel University in 1991. For the past 13 years I have worked for Honda R&D Europe in Materials Engineering. I specialise coatings and surface treatments for decoration and durability, also adhesives, sealants and environmental issues such as recyclability and ELV Directive compliance. As a small operation we work on a wide range of materials so an appreciation for the design and function of the components they are applied to is essential. In my spare time I am restoring a 1970 Triumph Vitesse. In 2007 I was a judge in the FS presentation event.

Melanie Smart

Director

Adurasys Ltd

Originally trained as a mechanical/production engineer, moving into IT solutions (PDM, PLM) specialising in cost management, for Automotive, Aerospace & Defence sectors. With engineering, technical, and commercial skills she can communicate both technical and commercial arguments. Melanie is passionate about retaining a strong engineering presence in UK, to this end is working on various not-for profit

projects with Prof Krish Bhaskar. Her involvement as judge at last year's FS made her an enthusiastic ambassador for the event. She is on executive committee of Chamber of Commerce and an active public speaker and acting President at Birmingham Toastmasters club. Currently Managing Director of Adurasys Ltd

Colin Smith

Consultant Programme Manager

MIRA Ltd

Most of working career spent in motor industry both in UK and overseas (Germany, France, Italy, Korea, Hong Kong, and China). Currently working for MIRA Ltd (for 15 years) as Programme Manager for whole vehicle test & development projects for Chinese, Korean and European motor manufacturers. Considerable experience in giving and receiving sales and technical engineering presentations. Have always had an interest in all types of motor sport. Full time involvement in 1998 Formula Student event held at MIRA for team support and overall event organisation.

Terry Spall

Vice President – Asia

MIRA Ltd

First degree in Mechanical Engineering, MSc in Engineering Programme Management. Worked at MIRA since 1995 in Vehicle Programme Management and more recently Business Development. Currently Chairman of IMechE Auto Div and have been involved in Formula Student since it started in the UK. Have previously been a design judge on 4 occasions. Keen motorsport fan.

Thomas Sprostan

Control Systems Engineer

Rolls-Royce plc

I work in Control Systems Reliability for Rolls-Royce plc with particular interests in Highly Accelerated Testing and Product Robustness / Fitness for Purpose. Outside of work I enjoy car modification and am currently planning the retrofit of a highly powerful engine into a very small car, resulting in a power to weight ratio that could most FS cars a good run. I was part of Lancaster University's 2007 entry, with my interests primarily in suspension geometry and dynamics.

David Steele

Mechanical Design Engineer

Super Aguri F1 Team

Attended Brunel University and was a member of Brunel Racing Formula Student during 2005-2006, working mainly on the suspension system. Graduated in July 2006 and began work with Super Aguri F1 Team as a design engineer, specialising in suspension and mechanical component design.

Robin Stephenson

Senior Auditor

Ford Motor Compnay

Hi, I'm Robin, I did my engineering degree at Bath University and followed this by 11 years working as a product development engineer in the defence electronics and telecommunications sectors. I then made a career change into finance, initially supported by a postgraduate Diploma in Management Science (DMS) and followed by the Chartered Institute of Management Accounting (CIMA) professional exams. Working for the last 10 years as an accountant in the product development, business management and internal audit fields. I am particularly interested in promoting effective communication between engineers and accountants. I have a 1960s Lotus Elan drophead which I am slowly restoring.

Peter Stewart

Vendor Tooling Engineer
Jaguar Land Rover

As a Jaguar Land Rover Vendor Tooling Engineer a significant part of my responsibilities over the last 20+ years has been to establish value-for-money of tooling used at our suppliers for manufacture of all types of components used in vehicles in the Land Rover and Jaguar product range. I have a large amount of experience in all types of tooling, manufacturing processes and materials. This will be my first year involved with Formula Student. I enjoy watching all forms of Motorsport.

Oli Taylor

Graduate Engineer
Castrol

Engineer working within Castrol's research and development department, testing and developing new engine lubricants.

Penny Taylor

Training Manager
Johnson Controls Ltd

Chairman of IMechE Automobile Division 2004-5. Career in Automotive Engineering, through Sales, Program Management, Financial Management, Quality, Operations and now in Training and Development. Life long car enthusiast and proud owner of re-built MG Midget.

Nimesh Thakrar

Vehicle Dynamics Engineer
Super Aguri F1 Team

Currently working as a vehicle dynamics engineer at Super Aguri F1, prior to this I was at MIRA on a graduate development scheme consisting of placements in various departments. I deputy led the Imperial College team in 2003/4 and hobbies include racket sports and flying.

Iestyn Thomas

Mechanical Design Engineer
Cardiff University

Mechanical Design Engineer with fifteen years design and project management experience in the aerospace, automotive and research sectors. Interested in motor sports in general and the application of cutting edge technology in transportation for the future.

Kevin Thomassen

Worked 2 years in the Dutracing team. In 2004-2005 class 3 Chassis Manager and helped class 1 to produce the Dut05, 2005-2006 worked as member of class 1 chassis. Responsible for the part between driveshaft, engine, suspension and the jacking bar.

The Design and afterwards testing each part after a driving test with a penetrating crack enquiry. We name that part the boomerang because of his shape.

FS experience: In the past I did 2 times FS UK (2005-2006), 1 time FSG (2006) and 1 time the Baltic Open (2006)

Professional background: From 1996 to 2000 studying Mechanicals, 2000 to 2003 graduated in Aerospace Techniques, 2003-2004 worked for Belgian Airforce F-16, 2004-2007 studied Aerospace Engineering at the University of Delft.

Ian Thomson

Head of Composite Design

Super Aguri F1 Ltd

A graduate of Coventry University Industrial Design/Transport. Around racing cars since before I could walk. Over 25 years experience in various composite design and manufacturing roles mainly in F1. At Williams GP, March, Ferrari, Sauber Mercedes-Benz sports cars, Sauber F1 1992-2001, Prost GP, Asiatech, Renault, Dallara and currently Super Aguri. Have been lead designer on a dozen F1 chassis in addition to composite bodywork, ancillaries and suspension I specialise in the design and development of crash structures. Many years ago competed in sprints and hillclimbs in an Austin Sprite and continue to love riding my Moto Guzzi.

Piers Thynne*Engineering Project Manager*

Xtrac

Engineering Project Manager at Xtrac Motorsport Transmissions. Responsible for the Project Management of Xtracs Engineering Projects. Responsible for the running of Xtracs award winning Industrial placement scheme. Keen Hillclimber in a self built modified Dallara F3 circuit car.

Shaun Topham*L & D Specialist*

Honda R & D Europe (UK) Ltd

I was an engineer in the Royal Navy submarine service in the 1970's. I have subsequently worked for Renault and Intercontinental Hotels as a chief engineer. My engineering speciality was HVAC. I joined Honda R&D in January this year as a Learning and Development Specialist dedicated to optimising the performance of Managers and Associates.

Dom Tribe*Purchaser*

Ford of Europe

Dom Tribe is currently a lead purchaser for Ford of Europe and specialises in seats and restraints. Prior to Ford Dom was a specialist 'Technology Assurance and Advisory' consultant at Deloitte and Touche LLP in London and worked closely with companies (many of which were automotive) providing technology and cost saving solutions for all areas of their business from accounts and strategies right through to supply chain, logistics and production. Dom currently holds an amateur class race-license and frequently takes part in track days for both car and bike.

Grant Tuff*Vehicle Dynamics Engineer*

Williams Grand Prix

2007 - FS judge - class 1, 2006 FS judge - class 2/3, 2003 FS judge - presentation

2002 - present: Vehicle dynamics engineer Williams Grand Prix.

1995 - 2001: Data analyst / race engineer Williams Grand Prix

1989 - 1994: Design and development engineer Reynard Racing Cars

1985 - 1989: Undergraduate apprentice Rolls Royce Motor Cars / Manchester University

Nicholas Vaughan*Head of Department of Automotive Engineering*

Cranfield University

Mechanical Engineer by first qualification and most research work with the design and control of powertrain systems. Initially these systems were based on continuously variable transmissions but more recently they have included hybrid

electric and fuel cell vehicles. I initiated a Formula Student activity at my former university in 2000 and have been active ever since both as a presentation judge and then as a design judge, most recently becoming a member of the moderating team. As an engineer I am interested in understanding most aspects of car design but reality most interested in the driving experience and driving technique.

Brian Walker

Retired Operations Manager

Retired operations director with experience of managing a range of engineering activities including some involving services to the motor sport industry. A Lead Assessor for IMechE's Manufacturing Excellence Awards.

Mark Walker

Senior Engineer

The MathWorks

I have worked for 10 years as an engineer and manager, developing embedded control systems for automotive and aerospace applications. For 7 years I worked for a subsidiary of Ford (Pi Technology) developing, calibrating and testing powertrain control systems. In what little spare time I have, I compete in the MG Car Club Speed Championship in a modified MG Midget. I have won my class in the championship several times since I started in 2001.

Christopher Warman

Retired Forensic Consulting Engineer

I graduated from Cambridge in 1958 and worked for ICI for 16 years. I subsequently worked in the construction industry in Italy, Saudi Arabia and France. In 1988 I returned to the UK and worked as a partner in a firm of forensic consulting engineers until my retirement in 2007. Motor sport has always been my main hobby and interest. Since the late 1950's the cars I have owned have included an Elva Climax, a Le Mans Replica Frazer Nash, Types 13, 27 and 51 Bugattis, an EHP (rare French car built in 1925 to compete at Brooklands), a 1928 Austin 7 Chummy, and a 6C 1750 Grand Sport Alfa Romeo. Over the years I competed in speed events in the Elva, the Types 37 and 51 Bugattis and the Frazer Nash. I am a member of the Vintage Sports Car Club, the Bugatti Owners Club, the Frazer Nash Car Club and the Bugatti Trust.

Robert Watson

Consultant

Red 7 Developments

Graduated from Cambridge University in 1977. Joined the coachbuilding division of Rolls-Royce Motor Cars Ltd, before joining Aston Martin Lagonda as Engineering Manager. After launch of Aston Martin's Vantage supercar, established Tickford Ltd's Vehicle Engineering Centre. Lead SMMT's work on Vehicle and Environmental Technical Legislation and Standards. Joined EEF as Chief Executive, East Midlands & Mid-Anglia Association, an employers organisation for the engineering and manufacturing sector. Robert is a passionate advocate of the importance of the manufacturing sector within the UK economy. He has particular interest in the role of technology and education the ongoing competitive development of UK Industry

Peter White

Associate Dean

Coventry University

I am an Associate Dean of the Faculty of Engineering and Computing at Coventry University, Professor of Thermofluid Dynamics, a Fellow of the IMechE, Vice Chair of the Automobile Division of the IMechE, Chair of the IMechE Vehicle Thermal

Management Systems Conference, have observed Coventry students building FS entries for 6+ years, and am in the final stages of building a Westfield Sport 1600 sports car.

Matt Wilkin

Tyre Analysis Engineers

Honda Racing F1

Former University of Leeds formula student team member, involved with five cars during time with the team. Attended UK, USA & Japan formula student events. Involved with suspension modelling & design, chassis design, team management and eventually team captain. During University course took a placement year with F1 team BAR within vehicle dynamics. After graduation studied for PhD in field of vehicle dynamics at University of Leeds. Started work for Jaguar Racing F1 team as simulation engineer, later working on damper development and 7-post rig. Became trackside vehicle dynamicist with Red Bull Racing. Now tyre analysis engineer for Honda Racing F1 team.

Mark Williams

Estimator

Ford Motor Company

I have spent 15 years working for Ford motor company starting as a qualified Toolmaker and then progressing to the planning office then on to become a CAD designer. I then worked for Visteon for 3 years as a purchase cost estimator. On returning to Ford I have continued to work in a cost estimating function. 2007 cost judge. My interests included health and fitness, I used to own a race a 100cc go kart and have a keen interest in motor vehicles.

Tim Williams

CAE Manager

Simpact Engineering

Strong academic and professional background is in vehicle design and development. Virtual & experimental methods. Core skills & experience in vehicle safety. Heavy involvement in the design and development of vehicle structures to meet a range of targets (strength and stiffness, NVH, crash etc). Simpact own and develop OMS hillclimb and sprint car which is similar to FS vehicle but without design restrictions

Andrew Wilson

Graduate Engineer

FMC Technologies

I have a degree in Mechanical Engineering, worked for BAE Systems regional aircraft as a trainee powerplant systems engineer and I now work as a graduate engineer for FMC Technologies where I am involved with the manufacture of equipment for the oil and gas industry. I love motorsport. Although I have never participated beyond karting which is great fun, I am a huge F1 fan.

Terry Wilson

Retired Finance Manager

Jaguar & Land Rover

Twenty Six years experience in most aspects of Automotive financial control with Jaguar, Ford Motor Company and Land Rover, working all over the UK, USA and Sweden. Four years of Corporate Governance consultancy at J & LR, Volvo and in other business sectors. Interest: all sports, travel, general reading, science and the cinema.

Gary Woods

*Design Engineer**Zytek Engineering*

Member of the 2005 Formula Student Class 3 winning team from the University of Bath. In 2006 entered Class 1 with the same team. Role within the team based around the power train, intake design, dyno etc. Worked for the past two years as a Design Engineer for Zytek Engineering, working in a small team in the design and manufacture of V8 racing engines. Also done some track support with the 2006/07 A1GP tour and more recently worked on KERS systems for F1. Was a Design Judge at last year's competition.

Igor Zanetti*Mechanical Engineer*

General Motors Powertrain Europe

I participated as a student in six Formula SAE events in the last three years. I was the responsible for the engine division in my team. I was at Formula SAE Italy event in Balocco 2005. I was at Formula Student event in Leicester and at Formula SAE Italy event in Balocco two years ago (2006). I took part in Formula Student event in Silverstone, Formula SAE Germany event in Hockenheim and Formula SAE Italy in Fiorano last year (2007). I'm experienced with the engine related part of the rules and more in general on all the other parts.