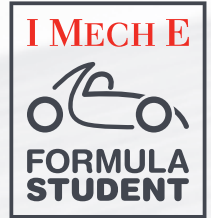


## FORMULA STUDENT

Institution of Mechanical Engineers



# Congratulations to California Polytechnic State University

FOR PARTICIPATING IN FORMULA STUDENT 2008

Cal Poly, San Luis Obispo has been in a transition year, with a lot of younger members forced to learn the design of a car, before taking the necessary course work.

Our school's motto is "Learn by Doing", which is exactly our philosophy with our Formula Student car. We design, test, and build everything that goes on our car: from CNC parts to Carbon Fibre lay-ups, we do everything in-house on campus.

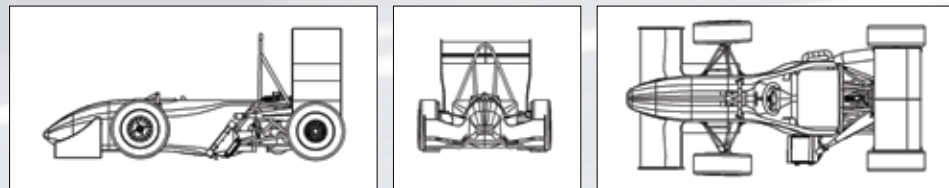
We currently have the largest team we have ever had at over 40 people, from all different majors. The team has produced an iteration of the 2006 design, which incorporated a solid rear axle, a single cylinder engine and carbon-carbon brakes.

This year the team has made significant improvements, while still keeping our two main features. We have incorporated an aerodynamics package to the chassis, which includes a front and rear wing, as well as switching to 13" wheels, new and improved dampers, and a better tuned engine.

We have scrambled to get the money in order to compete in Formula Student 2008 and are very grateful to be here. This is a very exciting experience for us, as it will be the team's first International competition.



First  
time  
at FS UK



**Length/width/height/wheelbase**  
2650mm/1320mm/1100mm/1560mm

**Track (front/rear)**  
1100mm/1140mm

**Weight including 68kg driver (front/rear)**  
120kg/106kg

**Suspension (front/rear)**  
Double unequal length A-Arm. Push rod actuated horizontally oriented spring damper/Solid rear axle with swing arm activated mono-shock

**Tyres (front/rear)**  
20x7-13 D2692 Goodyear

**Wheels (front/rear)**  
7" wide, 3 pc Carbon Wheel, 19mm neg./64 mm neg. offset

**Brakes (front/rear)**  
Floating, Carbon-carbon, hub mounted, 184mm dia. 5mm thick/single Floating, Carbon-carbon, axle mounted, 184mm dia. 5mm thick

**Frame type**  
Monocoque driver safety cell/steel tube rear subframe, JD Lincoln L-930 pre-preg carbon fiber/4130 normalized steel

**Engine**  
2006 Yamaha WR450F

**Bore/stroke/cylinders/cc**  
95mm bore/63mm stroke/1 cylinder/449cc

**Fuel**  
93 octane petrol

**Fuel system**  
Performance Electronics, fuel injection, single injector

**Max power/max torque**  
8,000rpm/7,000rpm

**Transmission/differential/final drive**  
Live solid rear axle/none/8.65