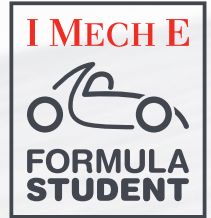


## FORMULA STUDENT

Institution of Mechanical Engineers



# Congratulations to Aristotle University of Thessaloniki

FOR PARTICIPATING IN FORMULA STUDENT 2008

The Aristotle Racing Team (ART) was created in November 2007 by Mechanical Engineering students of the Aristotle University of Thessaloniki (AUTH). Within 10 months the team has designed from scratch and built its very first Formula Student racing car of AUTH ART-epta.

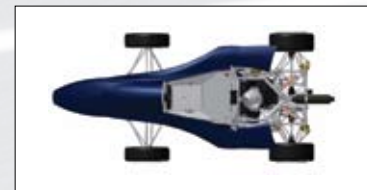
It is based on a tubular frame made of stainless steel and powered by a Honda CBR 600RR engine. It has several unique features that enable a detailed setup to adopt different driving styles and tracks. These include:

- Intake manifold with interchangeable runners
- Adjustable steering geometry, varying from Ackermann to parallel
- Adjustable anti-dive and anti-squat
- Adjustable camber angles.

In September 2007, ART participated in the SAE-ATA event that took place in Fiorano Modenese and proved to be reliable and competitive. ART is motivated and is going to do its best in the forthcoming contests and exchange experiences and know-how with students from around the world.



First  
time  
at FS UK



**Length/width/height/wheelbase**  
3185mm/1452mm/1130mm/1650mm

**Track (front/rear)**  
1295mm – 1325mm adjustable/1250mm

**Weight including 68kg driver (front/rear)**  
162kg/198kg

**Suspension (front/rear)**  
Double unequal length wishbones.  
Push rod actuated

**Tyres (front/rear)**  
Avon 20x6.2-13/20x7.2-13 A11  
for slick – A15 for wet or Alter:  
A53 for slick – A91 for wet

**Wheels (front/rear)**  
6 inch wide, 3 pc Al Rim, 10.8mm  
positive. Offset/8 inch wide, 3 pc  
Al Rim, 2.6mm positive. Offset

**Brakes (front/rear)**  
2 Floating iron cross drilled, hub  
mounted, 220mm dam. Cross drilled

**Frame type**  
Tubular space frame, 316L and 304L  
stainless steel round tubing 14 to  
26.9mm dia/1 to 2.5mm thick

**Engine**  
2006 Honda CBR 600 RR

**Bore/stroke/cylinders/cc**  
67mm bore/42.5mm stroke/  
4 cylinder/599 cc

**Fuel**  
94 octane unleaded gasoline

**Fuel system**  
ART design and built, fuel  
injection, sequential

**Max power/max torque**  
12,000RPM/8,000RPM

**Transmission/differential/final drive**  
Chain drive, 62 members 19mm width/  
Torsen type 2/3.583 or 2.6875  
depends on chain gear