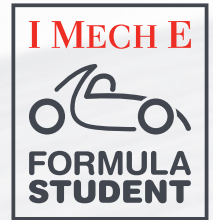


## FORMULA STUDENT

Institution of Mechanical Engineers



# Congratulations to Università degli Studi di Firenze

FOR PARTICIPATING IN FORMULA STUDENT 2008

**Firenze Race Team is the oldest Italian team, with a long tradition of cars and a unique style. We are proud to be the pioneers of Formula SAE in our nation and we can say to be the first Italian team that tried to win an SAE competition in the USA, in 2007.**

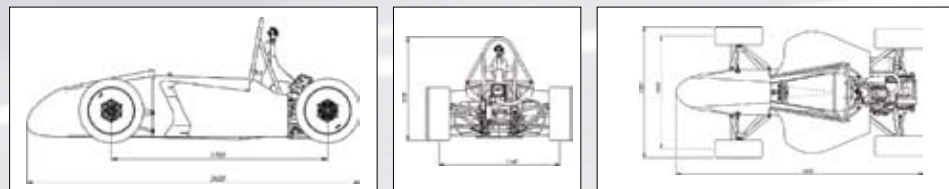
For this new adventure the team has renewed a lot of its car. It appears completely different from the old one in its shape and, much more importantly, in its background idea, but it never betrays its heart: the Ducati engine.

We tried to change the shape of the car and its core, always trying to achieve the best in terms of performance and handling. A large part of the new work is the new concept of the car concerning vehicle dynamics and suspensions design. This can be attested by the increased wheelbase and the new geometry of the suspension arms.

We decided to try the way of innovation from our old cars, producing a well finished car that acknowledges its ancestors, but differs a lot from them. What has remained the same from past years is our enthusiasm and the approach we use to our SAE experience. Never forgetting where we started from and where we want to go, always pushed by our lovely sounding engine!



**Winner**  
Best Cost  
Analysis  
Award



<b>Length/width/height/wheelbase</b>	2620mm/1387mm/978mm/1700mm
<b>Track (front/rear)</b>	1200mm/1140mm
<b>Weight including 68kg driver (front/rear)</b>	125kg/150kg
<b>Suspension (front/rear)</b>	Unequal length A-Arms. Push rod/push rod actuated Cane Creek Double Barrel dampers
<b>Tyres (front/rear)</b>	20.0x6.2 – 13/20.0x7.2-13 A045 Avon
<b>Wheels (front/rear)</b>	Composite, 13" x 157.5mm – 23.8mm offset/13" x 182.8mm – 36.5mm offset
<b>Brakes (front/rear)</b>	Floating, AISI 1040, hub mounted, 226 mm dia./diff. mounted, 170mm dia.
<b>Frame type</b>	Steel tube space frame with glued carbon fibre floor panels, AISI 1020 (bent) and cold drawn AISI 4130 (straight) steel tube space frame
<b>Engine</b>	Ducati Desmo3 651cc, displacement reduced via crankshaft and piston redesign
<b>Bore/stroke/cylinders/cc</b>	84.0 x 55mm/2 cylinder/609 cc
<b>Fuel</b>	95 unleaded fuel
<b>Fuel system</b>	Student des/built, fuel injection, sequential
<b>Max power/max torque</b>	8,500rpm/6,500rpm
<b>Transmission/differential/final drive</b>	Chain #520/limited slip differential/2