University of Patras Racing Team – Formula Student

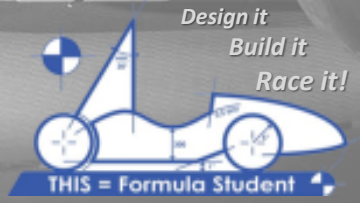
Call for cooperation

Who are we?

We are a team of passionate students, designing, building and racing cutting-edge technology electric racecars, that compete in Formula Student competitions! Our team consist of students from various university departments, working relentlessly together, eager to learn and practice our passion; racecars! Team members are divided in sub-teams, not only designing the actual car but also dealing with management, business plan and financial issues. Some call us the most successful Formula Student team in Greece, we call us UoP Racing!

What is Formula Student Series?

- ✓ Design and manufacturing competition of a small single seat racecar for engineering students
- ✓ The project usually forms part of their academic studies, and culminates in a competition where teams from all over the world come together to run their vehicles and compete against each other
- ✓ Restrictions are placed on the car frame and engine so that the students' knowledge, creativity, and imagination are tested
- ✓ Internal combustion engines, hybrid and (recently) all electric powertrain solutions are allowed offering students opportunities to create cars with parts manufactured using cutting edge technology
- ✓ The vehicles are judged in three different categories: static inspection and engineering design, solo performance trials, and high-performance track endurance
- ✓ Consists of two classes:
  - Class 2: Car concept, feasibility study and design, manufactured parts of the racecar, judged only on static disciplines
  - Class 1: Ready-to-race car, judged both statically and on racetrack
- ✓ Fully homologated project with yearly updated rule-set
- ✓ Prepares new engineers for the real word market and forms strong bonds between University and Industry
- ✓ Participation of numerous Universities from all over the world
- ✓ Supported by major technology firms



What are UoP Racing Teams' milestones?

- ✓ Founded in 2002
- ✓ Constructed four complete racecars
- ✓ First Greek team to win a class (Class 2 ,2003)
- ✓ First Greek made carbon monocoque chassis (UoP1)
- ✓ First Greek racecar (UoP1) to compete in 2004 in UK
- ✓ First Greek team to win two consecutive Class 2 entries (UoP1 and UoP2)
- ✓ Multiple design and cost awards (2003, 2006, 2007)
- ✓ First Greek team to compete in the toughest European competition in Germany (FSG 2008,2011)
- ✓ Only Greek team to compete in USA (FSAE Michigan 2010)
- ✓ Only Greek team to produce and race with a carbon monocoque chassis
- ✓ First and only Greek fully electric racecar
- ✓ **Only Greek team to win the first place overall in Competition (FS Czech 2014)**

What are the highlights for 2014 season?

Formula Student UK 2014 (Class 1 & Class 2)

- 1st place in Business Plan (Class 2)
- 5th place overall Electric (Class 1)

Formula Student Czech Republic 2014 (Class 1)

- 1st place in 5/8 events
- 1st place overall Electric

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What about the car specifications?

Frame

- Carbon fiber monocoque sandwich structure
- Steel safety roll-hoop

General

- Length: 2,7m
- Track front: 1,24m
- Track rear: 1,22m
- Weight: 235kg
- 0-100kph: 3.5 sec
- Top speed: 172kph
- Max cornering: Over 2g

Motor

- Electric Motor
- Power output : 85 kW
- Student-designed battery pack
- Advanced traction control system
- Adjustable configuration for motor's performance

Suspension

- Double un-equal carbon fiber A-arms
- Pushrod actuated shocks
- CNC machined aluminum uprights and hubs

Transmission

- Limited slip differential
- Direct drive transmission
- Differential mounted inside the AC motor
- Hollow halfshafts

Brakes

- Pedal box made of lightweight alloys
- 4piston calipers all around
- Driver adjustable brake balance
- Regenerative braking to charge the batteries

Which are the targets for 2015 Season?

- ✓ Last season's target of running a fully electric racecar for the first time in team's history proved to be a wise and successful decision. Engineering students of University of Patras Racing Team designed and built UoP4e, despite the lack of previous background, and gained valuable knowledge and experience in electric power train.
- ✓ Furthermore, the previous season results are the most successful in the history of the team, with multiple awards culminating in the conquest of the first place in the overall ranking in the competition of Czech Republic.
- ✓ UoP Racing Team will continue in the field of electric motorsport, the future of motorsport, and will focus on designing and building reliable and efficient electric racecars with high performance .
- ✓ For the new racing season 2015, UoP Racing team has been revamped and is focused on the design and construction of the second electric single-seater racing team's car, UoP5e.

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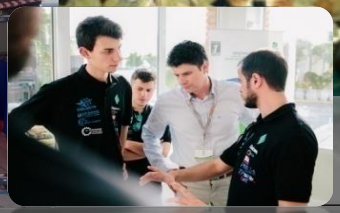
Where can we showcase your company?

- ✓ 79 publication in news & magazines
- ✓ 75 articles in internet sites
- ✓ 18 TV appearances
- ✓ More than 1200 website visits per month
- ✓ More than 2200 Facebook fans
- ✓ More than 570 twitter followers

- ✓ Team presentation in O.A.K.A. Stadium (2007)
- ✓ International car show, Athens (2007)
- ✓ Research and innovation expo (2008)
- ✓ International Kart Race at Patras city center P.I.C.K. (2009, 2010, 2011, 2012, 2013 & 2014)
- ✓ Team presentation in O.A.K.A. Stadium.(2011)
- ✓ Industrial Technologies Conference. Athens (2014)
- ✓ Team presentation in first Athens Science Festival (2014)
- ✓ Haas CNC Training Center opening day (2014)
- ✓ Team presentation in Hellenic Motor Museum (2014)



UoP Racing – Formula Student Team

Season 2014-2015

What are your benefits?

Grand Sponsor

- ✓ Large size logos on a highly visible spot on the car
- ✓ Publish of company name on a central spot on official team site, as well as on team's uniforms
- ✓ Extra publish of company logo on press releases, promotion leaflets and any other public event for the project
- ✓ Appearance of the car in sponsors advertising space in exhibitions

Sponsor

- ✓ Medium size logos on visible spots on the car
- ✓ Publish of company name (through a medium size logo) on official team site, as well as on team's uniforms

Supporter

- ✓ Small size logos on visible spots on the car
- ✓ Publish of company name (through a small size logo) on official team site, as well as on team's uniforms

Take place next to us!

Want to become a sponsor of our team? There are your benefits :

Promotion of your business through an innovative and unique method:

- In website through the team's official website and social medias.
- Through publication in medias and TV.
- Through the logos on the car, team outfit and team stand in the competition
- Through special promotional events (fairs, expos, etc.)
- Promotion of your products in the FS competitions, expos, car shows, etc.
- Presentation of the actual racecar on your own events

Collaboration with University of Patras:

- Research promotion
- Improve your company's social profile through the support of a educational project.
- Promote your dynamic profile by supporting a real motorsport team.
- Improve your ecological profile though "green motorsport"

Take place next to us!

How can you help UoP Racing?

- ✓ Financial support
- ✓ Support on team's events (testing sessions, pres events, Formula Student competitions
- ✓ Provide means of transportation for the team and/or racecar to the competitions
- ✓ Provide testing areas and space for PR events
- ✓ Possible organization of an national motorsport event with team's from all Greek universities
- ✓ Promotion of the team news in your website and social media accounts.

Support our effort!

Together we can develop motorsport.

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Sponsors-Supporters

Contact us

Laboratory for Manufacturing Systems & Automation

Department of Mechanical Engineering and Aeronautics

University of Patras

Rio, Patras 26500, Greece

Tel.: +302610997262

fs.uopracing@gmail.com

bikas@lms.mech.upatras.gr

http://lms.mech.upatras.gr/Formula

http://twitter.com/UoPRacingTeam

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