# SIDDARTHA KHASTGIR | 06ME3303

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## **PROJECT**

# FOUNDER & TEAM LEADER, Formula SAE (race car) team

• Conceptualized the idea & got it approved by the Director, IIT Kharagpur & Dean SRIC-Prof.P.P.Chakrabarti

- Led a team of 40 students, involved in the making of a **formula style race car** (**First time** at IIT Kharagpur)
- Represented India, Formula Student UK '10. Shortlisted in top 6(/105) for Airbus Teamwork Award 2010
- Secured the largest funding for any student led project of INR 1 Million from SRIC IIT Kharagpur
- Acquired industry sponsorship worth INR 0.7 Million & industry internships for team members
- Impressed the Director & Dean by successfully completing the car & convinced them to fund the next car
- Started working on **next car** to take part in Formula Student UK'11. **Chief modifications** being: Engine mapping, Weight reduction from 300kg(on '10 car) to a target weight of 240kg

#### **INTERNSHIPS**

#### WARWICK MANUFACTURING GROUP, UNIVERSITY OF WARWICK, UK

May'09 - July'09

- Analyzed half hourly electricity generation data for the entire year & identified patterns which were unexplored before
- Developed a novel vehicle smart charging model for Hybrid & Electric vehicles in MATLAB Simulink® and MS-Excel
- Proposed strategy led to a 24% reduction in CO<sub>2</sub> emissions from Hybrid & Electric vehicles as compared to uncontrolled charging
- Co-authored a Research Paper currently under review by an International Journal, "Energy" (Impact factor: 2.952)
- Orchestrated International collaboration between WMG & IIT, focusing on student exchange & joint research. Leading to
  internships at WMG for 6 students including 2 from FSAE team. Also, WMG will hosting us at the Formula Student UK event

#### LKT, UNIVERSITY OF ERLANGEN-NÜRNBERG, GERMANY

May'08 - July'08

- Awarded Internship grant from German Academic Exchange Service, DAAD
- Developed a GUI for an application to illustrate bending of beams which was incorporated in one of the modules of the department

### MARUTI SUZUKI INDIA LIMITED, GURGAON

May'07 - July'07

- Value analysis of HVAC system of Maruti Suzuki's Alto & Wagon R models. Modified piping system to reduce the cost by Rs 11/car
- Led to an annual savings of INR 0.9 Million (approx) with a daily production of 270 cars (on an average) in the assembly plant

### **ACADEMIC QUALIFICATIONS**

ACADEMIC ACHIEVEMENTS

Examination	Year	Institution/School	CGPA/ Percentage
Dual Degree, Mechanical Engineering	2006-Present	Indian Institute of Technology, Kharagpur	7.46/10.00
AISSCE (CBSE)	2006	Bal Bharati Public School, New Delhi	88.40%
AISSCE (CBSE)	2004	Bal Bharati Public School, New Delhi	96.60%

SCHOLASTIC

COMPETITIVE EXAMINATIONS

<ul> <li>Secured Rank 23 at state level (Delhi) in National Mathematical Olympiad</li> </ul>	2002
■ Selected for Indian National Chemistry Olympiad based on national top 1% ranking in NSEC	
■ Selected for the prestigious CSIR Youth for Leadership in Science programme	
■ Awarded as Junior Science Talent Search Examination (JSTSE) Scholar	
■ Merit Certificate by CBSE for being among the top 0.1% in India in Social Sciences in AISSCE	
■ Awarded Scholars' Gold Medal for outstanding overall performance for six consecutive years	
<ul> <li>Qualified major Pre-Medical entrance exams. AIR 505 out of around 350,000 in CBSE PMT</li> </ul>	2006
<ul> <li>Qualified Delhi PMT (Rank 140), CMC Vellore (1 of 7 selected in India) &amp; AFMC Pune (top 105)</li> </ul>	
Among Top 50 all over India (Delhi Rank 5) in Class 10th CBSE examination	

#### POSITIONS OF RESPONSIBILITY

**CHAIRMAN** IMechE, UK Student Chapter

- Established UK based, Institution of Mechanical Engineers' first ever student chapter in India, 2009
- Organized IMechE's flagship event, Speak out for Engineering for the first time in India
- Conducted 4 zonal prelims with 300 participants & the finals at IIT Kharagpur with 15 finalists, 2010

REPRESENTATIVE INDIA DAYS

HALL SECRETARY

- Represented IIT Kharagpur, at "India Days" conference organized by DAAD in Germany, 2008
- Presented an overview on IIT Kharagpur before a 100 delegate German audience & Directors of 3 IITs
- Technology Representative of RK Hall at TSG as a part of a 7 member team from various halls of residence

#### **EXTRA-CURRICULLAR ACTIVITIES**

- Winner Relic hunter, worldwide online puzzle with participation of 950 teams, Kshitij 2009
- Member of Silver winning RK Hall Basketball team in inter-hall tournament, 2008
- Senior Diploma (four years) in Tabla from Prayag Sangeet Samiti, Allahabad, 2004
- Love to travel & have travelled across 10 countries, 8 in Europe. Passionate follower of Manchester United F.C. & Formula 1