



Bhounik Shah
Mechanical Engineering
Indian Institute of Technology Bombay
Specialization: Computer Integrated Manufacturing

12D100008
UG Second Year
Male
DOB: 10/05/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.58
Intermediate/+2	H.S.C	NIRMALA MEMORIAL FOUNDATION COLLEGE OF SCIENCE- MUMBAI	2012	82.50
Matriculation	S.S.C	MATRUCHHAYA GUJARATI HIGH SCHOOL- MUMBAI	2010	91.82

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 677** (among over 5,00,000 students) in **IIT-JEE**, 2012
- Gold Medalist** in **Dr. Homibhabha Bal Vaidnyanik** science talent search competition 2006
- 99.99 Percentile** in Maharashtra Secondary Scholarship Examination 2007
- Secured **All Maharashtra Rank 11** in Pre Secondary Scholarship Examination 2004
- Pursuing a **minor** in **Electrical Engineering**
- Scored 100/100 in Maths Sambodh Examination, 2004

PROJECTS UNDERTAKEN

- Member of the IIT Bombay Racing Team** **Prof. C Amarnath**
 - Currently working on the **electrical** and **electrical-differential** subsystem of the electric race vehicle for the **Formula Student UK-2014 competition**
 - Involved in designing and analyzing circuits for motor driver, analyzing working of various motors and analyzing vehicle dynamics and develop algorithm for electrical-differential
 - Hands-on work experience during IIT Bombay Racing Summer Internship on India's first electric racing vehicle EVo 2.0 which represented IIT Bombay at Formula Student 2013 held in the United Kingdom.
- Designed and developed first ever tri-copter of IIT-Bombay** **ITSP-2013**
 - Was one of the best 5 projects in ITSP-2013
 - Analyzed aerodynamic concepts for designing and used various sensors and object oriented coding for implementing auto stabilization
 - Completed the project in just 18 days of the 45 day timeline given under ITSP
- Designed and developed an autonomous line following bot with robotic gripper**
 - Designed an autonomous line following bot using microcontroller, IR sensors, Photo diode
 - attached robotic gripper to lift and relocate objects
- Other projects**
 - Football playing bot
 - Robotic sumo wrestler
 - Remote controlled vehicle
 - Game development (Duck hunt) with scratch
 - Typing tutorial using object oriented coding on C++

TECHNICAL SKILLS

- **Microcontroller:** AVR family, Arduino
- **Programming Languages:** C, C++, HTML, Scratch
- **Software Tools:** SolidWorks, MATLAB, Eagle, LT Spice, AutoCAD
- **MS Office:** Excel, Word, PowerPoint
- **Operating Systems:** Microsoft Windows, Mac, Linux

POSITIONS OF RESPONSIBILITY

- **Junior Design Engineer** of the **Vehicle Dynamics** and **Electrical Team** at **IIT-B Racing**
- **Convener**, Electronics Club, **STAB, IIT-B**
 - Organized an event electrified session to mentor juniors about basic electronics
 - Coordinated the Technical General Championship of IIT-B
 - Designed problem statement of line follower competition
 - Event manager for introductory session of eagle software
- Served as **organizer** of Horizon in **Mood Indigo**, the cultural festival of IIT Bombay
- Served as **organizer** of ozone in **Tech Fest**, the technical festival of IIT Bombay
- Served as a Tech-Mentor for XLR8 competition.

EXTRA-CURRICULAR ACTIVITIES

- **Enthusiastic actor**
- **2nd Position** in street play in freshiezza
- Performed in Sophie film
- Part of the first award winning production team at **Performing Arts Festival**, the cultural extravaganza of IIT Bombay
- NSO Hockey
- **Mentored** and taught over 100 **students for IIT-JEE** over a period of 4 months at **IIT”ians Pace** and **Rao IIT** academy
- Learnt Bollywood dancing at Pathshala workshop, IIT-B
- Learnt lawn tennis during summer camp 2013, IIT-B