

Ashwin Rajendra Khadke Mechanical Engineering Indian Institute of Technology Bombay

120100028 UG Second Year Male

DOB: 22/01/1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	9.43
Intermediate/+2	Maharashtra State Board	Deogiri College	2012	85.00
Matriculation	Maharashtra State Board	S.B.O.A. Public School	2010	95.80

Academic Achievements

- Secured All India Rank 190 in IIT-JEE
- Awarded **KVPY** Fellowship in year 2012
- Awarded NTSE (National Talent Search Examination) Scholarship in year 2008
- Awarded INSPIRE (Innovation in Science Pursuit for Inspired Research)
 Scholarship in year 2012

Projects

Winter Internship | Logical Automation Solutions Pvt. Ltd.

[Dec'13]

- Scripted a 6 axis robotic arm (Universal Robots UR5) to perform pick-up-andplace operation and developed a sketching application on the same
- Programmed it to sketch simple shapes and also to sketch pictures on input

Institute Technical Summer Project | IIT Bombay

[May'13-Jun'13]

- Designed an autonomous surveillance vehicle as part of project
- Learned to code on AVR platform

Magnetocaloric Effect | IIT Bombay

[Aug'13-present]

Guide: Prof. K. G. Suresh

- Studying mechanisms to maximize efficiency of magnetic refrigeration at room temperature
- Exploring cheaper substitutes for Gadolinium alloys as working material

Battleship | IIT Bombay

[Feb'13-Jun'13]

- Designed a single player game in C++
- Programmed the computer to play as 2nd player

Line Follower & RC Car | STAB

[Oct'12]

- Designed an autonomous vehicle that could follow a black line on a white surface, navigate intersections and turn on curves
- Designed a RC car for a competition in freshman year

Extracurriculars

Sports

- Represented school at state level Badminton tournament organized by SAI (Sports Authority of India)
- Completed Basic Water Sports course at Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports

Cultural

- Passed Elementary Drawing Grade Examination conducted by Government of Maharashtra
- Received Jury Honor in Sketch India 2002- National Exhibition of Art for Children and Young People
- Edited and Directed a Music video for Inter-Hostel Competition

Technical Skills

- Worked with C and C++ languages
- Basic knowledge of Eagle, Arduino coding, Solidworks, MATLAB and AutoCAD

Courses Completed

- Calculus
- Modern Physics
- Linear Algebra
- Ordinary Differential Equations
- Data Analysis and Interpretation
- Computer Programming and Utilization
- Discrete Structures (Minor)
- Economics
- Data Structures and Algorithms (Minor)*

- Engineering Mechanics
- Fluid Mechanics*
- Structural Mechanics*
- Manufacturing Processes*
- Thermodynamics
- Solid Mechanics
- Probability and Random Processes
- Introduction to Electrical and Electronic Circuits
- Engineering Metallurgy
- Introduction to Numerical Analysis*

Courses marked * will be completed by the end of May 2014