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## Academic Achievements

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- Secured **All India Rank 174** (amongst 479,000 aspirants) in IIT-JEE 2012
- Secured **All India Rank 15** (amongst 1.3 billion aspirants) and **State Rank 3** in AIEEE 2012
- Among top 1% of students out of 40,000 candidates who attempted NSEP (National Standard Examination in Physics)
- Bagged 1<sup>st</sup> position in Kendriya Vidyalaya Science Exhibition at regional level, and also showcased the project on national level
- Pursuing a minor in Physics

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## Projects and Training

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**Vocational Training** | Ordnance Factory, Amethi [Dec'13]

- Learnt and employed **CNC machining** to shape a gun part

**Magnetic refrigeration** | IIT Bombay [Aug'13-present]

*Guide: Prof. K.G Suresh*

- Researching various mechanisms to maximise efficiency of adiabatic refrigeration at room temperature

**Institute Technical Summer Project** | IIT Bombay [May'13-Jun'13]

- Conceptualised and designed a wall climbing bot as a part of project
- Fabricated suction and crawling mechanism for the functioning of bot
- Awarded Best Innovative Design Award

**Battleship Game** | IIT Bombay [Jan'13-Apr'13]

- Developed a famous game, battleship, using C++ language
- Programmed the computer to play as 2<sup>nd</sup> player with human players
- Included 'Save Game' feature by using file handling

**Line Follower** | STAB, IIT Bombay [Oct'12]

- Designed an autonomous sensor controlled bot based on AVR microcontroller
- Bot follows a white line on a black surface with Arduino programming to help it navigate intersection, bends and curves

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## Technical Skills

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- Knowledge of C++ and Solidworks
- Basic knowledge of Processing, Arduino and MATLAB

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## Courses Completed

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| • Calculus                             | • Classical Mechanics                                |
| • Modern Physics                       | • Engineering Mechanics                              |
| • Linear algebra                       | • Economics  |
| • Ordinary Differential Equations      | • Thermodynamics                                     |
| • Data Analysis and Interpretation     | • Solid Mechanics                                    |
| • Computer Programming and Utilisation | • Introduction to Electrical and Electronic Circuits |
| • Engineering Metallurgy               | • Fluid Mechanics*                                   |
| • Introduction To Numerical Analysis*  | • Strength Of Materials*                             |
| • Introduction To Quantum Mechanics*   | • Manufacturing Processes 1*                         |
|  | • General Theory Of Relativity*                      |
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Courses marked \* will be completed by end of April 2014

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## Positions of Responsibility

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### Teaching Assistant for modern physics (PH107) course | IIT Bombay [Aug'13-Dec'13]

*Prof. Shiva Prasad*

- Assisted freshman in better understanding of the course
- Assisted professor in checking of exam papers and grading

### Dramatics Secretary of Hostel-9 | IIT Bombay [Aug'13-present]

- Elected by around 500 inmates of hostel to organise and manage dramatics events for hostel
- Undertaken an initiative to hold a script writing workshop
- Assisted Hostel in bagging 1<sup>st</sup> position in inter-hostel dramatics competition

### Mentor - RF controlled car making competition | XLR8, IIT Bombay [Jul'13-Aug'13]

- Guided freshmen in completing their RF controlled car
- Assisted freshmen in learning solidworks

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## Extra-Curricular Activities

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<b>Cultural</b>	<ul style="list-style-type: none"><li>• Played a lead role in freshiezza music video competition and came in top 10</li><li>• Performed in winning team of PAF (Performing Arts Festival)</li><li>• Participated in SDL ( Sophomore's Dance League)</li></ul>
<b>Sports</b>	<ul style="list-style-type: none"><li>• Successfully completed one year of training in Badminton under NSO</li><li>• Attended Lawn Tennis Summer camp for training</li></ul>