**Arpit Rathi 12D070027**

**Electrical Engineering UG Second Year Indian Institute of Technology Bombay Male Specialization: Microelectronics DOB: 23/7/1993**



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| **Examination** | **University** | **Institute** | **Year** | **CPI / %** |
| Graduation | IIT Bombay | IIT Bombay | 2014 | 7.04 |
| Intermediate/+2 | Samrat Public School, Ajmer | CBSE | 2011 | 83.00 |
| Matriculation | Maheshwari Public School, Ajmer | CBSE | 2009 | 93.00 |

Academic Achievements:

 Secured **All India Rank 122** in IIT JEE (Joint Entrance Examination) 2012, amongst over

500,000 candidates

 Secured **All India Rank 1895** in AIEEE (All India Engineering Entrance Examination) 2012, amongst over one million candidates

 Scored **419 out of 450** in BITSAT (Birla Institute of Technology and Science Aptitude Test) 2012;

among the top 46 (out of over 130,000) students who scored above 400 marks

 Among **top 0.1%** students in ISAT, entrance exam conducted by Indian Institute of Space

Science and Technology

Projects Undertaken:

**3D Tracking Interface** *Institute Technical Summer Projects, IIT Bombay*

 In a team of three, created a touch-less 3D tracking interface which can be used to track the position of a small conducting object

 Created a sensor cube to generate electric field and connected it to Arduino microcontroller

 Created an Arduino sketch for the microcontroller and calibrated the processing software to detect the position of the object with minimum error

**XLR8** *Robotics Club, IIT Bombay*

 Designed and assembled an innovative remote controlled robot for XLR8 competition, 2012

**Conveyer Belt Controller** *Faculty Advisor – Prof. Anil Kottantharayil*

* Designed and assembled a device to control the speed of a conveyer belt according to the amount of luggage put on it

**Shortest Route Finder** *Faculty Advisor – Prof. Sridhar Iyer*

 Created a program in C++ wherein the user can input any map or use the default map to find the shortest path between any two locations

**Road Fighter** *Faculty Advisor – Prof. Sridhar Iyer*

 Created an addictive single player car racing game in Scratch

Technical Skills:

 **Programming Languages:** C, C++, Verilog HDL, Scratch

 **Software Packages:** Sony Vegas, Photoshop, MS Office

Working Experience:

 Working on developing a **social startup** under the guidance of **SINE (Society for Innovation and Entrepreneurship),** IIT Bombay

The startup aims to create an online platform where communities can solve their own problems democratically and much more efficiently

 **Institute Cultural Mentor,** Fourthwall (Dramatics Club), IIT Bombay

Selected by interview shortlist and PR review

Responsible for organizing various Dramatics event for more than 800 freshmen

Responsible for mentoring their performance in various plays and promoting institutes’ culture

 Worked with **National Service Scheme** team of IIT Bombay (August 2012 to April 2013) Taught underprivileged children and promoted social and moral values among them

 **Coordinator,** E-Cell (Entrepreneurship Cell), IIT Bombay

 **Coordinator,** TechFest (Technical Festival), IIT Bombay

 **Organizer,** Mood Indigo (Cultural Festival), IIT Bombay

 **Organizer** for the event SAM (Student Alumni Meet) organized by SARC (Student Alumni

Relationship Cell), IIT Bombay

Relevant Courses:

 **Electrical:** Introduction to Electrical Systems, Introduction to Electronics, Network Theory, Electronic Devices and Circuits, Electronic Devices Lab

 **Mathematics:** Calculus, Differential Equations, Linear Algebra, Data Analysis and Interpretation

Extra-Curricular Activities:

 Participated in Film Making Competition in **Mood Indigo, IIT Bombay** (Asia’s largest cultural

festival) which stood **First**

 Awarded **Best Actor** and **Special Mention** for direction in Sophomore Film Making Competition

 Completed a fast-track course on entrepreneurship, certified by E-Cell, IIT Bombay

 Participated in **Film Making General Championship** for Hostel 9, which stood **Third**

 Secured **First Position** in Face Painting, **Second Position** in Mono-acting and Special Mention for ad-making competition in Freshiezza (Largest cultural event for freshmen)

 Actively participated in various events organized by E-cell, IIT Bombay

 Participated in **Sophomore Productions** organized by Fourthwall (Dramatics Club), IIT Bombay

 Participated in a 48-hour film making competition organized by Silverscreen (Film Club), IIT Bombay

 Participated in various other events in Freshiezza including one-act play and poster making competitions