



Purvita Sunilkumar Ochiramani
Electrical Engineering
Indian Institute of Technology Bombay
Specialization: Communication & Signal Processing

12D110020
UG Second Year
Female
DOB: 24/12/1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.99
Intermediate/+2	State Board	Abasaheb Garware College, Pune	2012	84.50
Matriculation	State Board	St.Lawrence High School, Jalgaon	2010	97.09

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank **2076** in IIT-JEE 2012 amongst more than 5 lakh students (2012)
- Amongst the top 5% students (batch of 880) who received **branch change** to Electrical Engineering from Metallurgical Engineering And Materials Sciences (2013)
- Pursuing a Minor in **Management**
- Awarded the **National Talent Search Scholarship** (1000 students all over India) by NCERT, New Delhi (2008)
- Secured **53rd rank** in Regional Mathematics Olympiad (2010)
- Granted **SSC Merit Reward Scholarship** by Dhirubhai Ambani Foundation (2010)
- Shortlisted for the scholarship by Directorate, Higher Education for being first among the girls in Nasik division in SSC (2010)
- **5th rank** in International Mathematics Olympiad organised by MTG, New Delhi (2009)
- **All India Rank 1**, All India Open Mathematics Scholarship Examination by Institute for Promotion of Mathematics (2007)
- **National Rank 6**, Maths and Science Olympiad, Sarvodaya Award Scholarship Scheme, Calicut (2009)
- **National Rank 33**, Unified Cyber Olympiad, Unified Council (2008)
- **State Rank 1**, Maharashtra Talent Search Examination (2008)
- **State Rank 3**, Science Foundation Exam by Centre for Popularization of Science (2009)

PROJECTS

- **Model of Stealth Plane** (May-June 2013)
Institute Summer Technical Projects (ITSP-2013)
 - Completed under Students' Technical Activities Body (STAB), IIT Bombay
 - Successfully built a model of a Stealth Plane that is designed so as to make it difficult for conventional radar to detect or track the aircraft effectively. Used the concept of reflecting the radar waves in a direction other than that of the emitter
 - The project was showcased in the Annual Technical Exhibition 2013, IIT Bombay
- **Ray Tracing Project** (November 2012)
 - A C++ program which graphically displays the image formation by combination of lenses and mirrors
 - Developed as a part of Computer Programming And Utilisation course under Professor Abhiram Ranade

SOFTWARE SKILLS

- **Programming/Web development:** C++, HTML, CSS
- **Embedded systems and electronics:** Arduino, LT Spice
- **Image Manipulation:** Adobe Photoshop
- **Data Analysis:** Origin

POSITION OF RESPONSIBILITY

- **Coordinator, Techfest 2014 (Asia's Largest Science And Technology Festival)**
 - Competitions Coordinator in IIT Bombay's technical festival
 - Contributed ideas to formulate the competitions
 - Incubating ideas to deal with the participants all over India
- **Academic Head Girl Of St. Lawrence High School** (2010)
 - Organised an Inter-school Co-curricular Fest, CORONA
 - Coordinated various curricular and co-curricular activities in the school
 - Mentored junior students and handled their academic queries

EXTRA CURRICULAR

- Successfully built a **remote-controlled car** for an intra-college event XLR8, a competition by the Robotics Club, IIT Bombay (2012)
- Built an **autonomous line following bot** using an Arduino in Line follower competition organized by the Electronics Club, IIT Bombay (2012)
- Completed a course in **Photography** in Summer School Of Cult, IIT Bombay (May 2013)

KEY COURSES

- **Electrical Engineering:** Introduction to Electrical Systems, Introduction to Electronics*, Electronic Devices and Circuits, Network theory, Analog Circuits*, Digital Systems*, Signals and Systems*, Electrical Machines and Power Electronics*,
- **Mathematics:** Calculus, Linear Algebra, Differential Equations, Complex Analysis
- **Others:** Computer Programming and Utilisation, Environmental Studies, Materials and Technology, Engineering Graphics and Drawing, Economics, Electricity and Magnetism, Chemistry, Data Analysis And Interpretation, Human Resource Management*

* These courses will be completed by April 2014