



Pratik Pramod Fegade
Computer Science & Engineering
Indian Institute of Technology Bombay
Specialization: Computer Science and Engineering

120050004
UG Second Year
Male
DOB: 7th Nov, 1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	9.68
Intermediate/+2	Maharashtra State Board	Ratanbai Walbai Junior College of Science, Mulund	2012	92.83
Matriculation	Maharashtra State Board	New English School, Kalwa	2010	96.91

Scholastic Achievements

- Secured **All India Rank 16** in **IIT JEE** 2012 amongst 480,000 students
- Secured **All India Rank 38** in **AIEEE** 2012 amongst 1300,000 students
- Attended **International Olympiad Training Camp** in **Physics** in 2012
- Attended **International Olympiad Training Camp** in **Chemistry** in 2012
- Attended **Vijyoshi camp** in 2011 organised by **IISc** (Indian Institute of Sciences)
- Qualified for **INMO** (Indian National Mathematical Olympiad) 2012
- **Topped Maharashtra Talent Search** in 2009 and 2010
- **Gold Medalist** in **Dr. Homi Bhabha Balvaidynaik Examination** in 2008
- Pursuing a **Minor** in **Electrical Engineering**

Scholarships

- Offered **INSPIRE** Scholarship in 2012
- **KVPY** (Kishore Vaigyanik Protsahan Yojana) scholar in 2011-2012
- **NTSE** (National Talent Search Examination) scholar in 2009

Projects

- **Hardware Simulation of Pong** *(Oct-Nov 2013)*
Guide: Prof. Dipankar Saha
 - Simulated the game of **Pong** at the gate level using the software Logisim
- **Smart Suspension System** *(May-Jun 2013)*
 - Done as an Institute Technical Summer Project under Student's Technical Activities Body
 - Made an **active suspension system** for one wheel with a **PID** control mechanism
- **Microorganisms Simulation** *(Mar-Apr 2013)*
Guide: Prof. Amitabha Sanyal
 - Simulated a culture of sexually reproducing microorganisms
 - Demonstrates **Mendel's laws of Genetics** through random genetic mutations leading to new species
- **Simulation of an Aquarium** *(Oct-Nov 2012)*
Guide: Prof. Abhiram Ranade
 - Developed a fish aquarium simulation using Simplecpp developed by Prof. Ranade
 - Day night cycle, realistic water surface and fish movements implemented

Skills

- Programming Languages: C++, Java, PLT-Scheme, SWI-Prolog, Scilab, PSPICE
- Micro controller programming: Arduino, AVR
- Operating Systems: Comfortable with Windows, Ubuntu and Mac OSX

Internships

- Completed a winter internship in Edelwiess Financial Services Ltd *(Dec 2013)*
 - Worked on an algorithm which simulates the stock market given the required price variation of the security
- Selected for a summer internship in IST Austria under Prof. Krishnendu Chatterjee *(May-Jun 2014)*

Areas of Interest

- Graph theory and Combinatorics
- Algorithms
- Number theory
- Cryptography and its applications
- Psychology
- Astrophysics

Positions of Responsibility

- Hostel Secretary for Computer and Web Affairs of Hostel 5** *(Aug 2013-Present)*
The post involves maintenance of the hostel internet facilities, LAN ports and the computer room.
- Organiser, Techfest** *(Dec 2012)*
Worked under the lectures committee of Techfest

Courses Undertaken

Computer Programming and Utilisation	Discrete Structures
Introduction to Calculus	Data Structures and Algorithms
Economics	Data Structures and Algorithms Lab
Abstractions and Paradigms in Programming	Numerical Analysis*
Abstractions and Paradigms in Programming Lab	Logic Design*
Differential Equations	Logic Design Lab*
Linear Algebra	Automata Theory and Logic*
Data Analysis and Interpretation	Design and Analysis of Algorithms*
Digital Electronics	Software Systems Lab*
Experimentation and Measurement Lab	Special Semiconductor Devices*
Introduction to E & E Engineering	Introduction to Machine Learning*

*To be completed by May 2012

Extra Curricular Activities

- Technical**
 - Participated in XLR8, a **remote controlled car** making competition
 - Made a **Line Follower** using the Arduino micro controller
- Miscellaneous**
 - Participated in **FundaMental Quiz** by Newspapers in Education, The Times of India in 2007
 - Was a part of the **NSO** (National Sports Organisation) **Yoga** team in 2012-2013
 - Currently pursuing **Online Courses** on Coursera.org
 - Algorithms (by Prof. Robert Sedgewick and Prof. Kevin Wayne)
 - Social Psychology (by Prof. Scott Plous)
 - From Big Bang to Dark Energy (by Prof. Hitoshi Murayama)