Abhinav Garg   120010038

Aerospace Engineering   **UG Second Year**

Indian Institute of Technology Bombay   **Male**

                                     DOB: 03/09/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.92
Intermediate/+2	Central Board of Secondary Education	Delhi Public School Bhopal	2012	95.80
Matriculation	Central Board of Secondary Education	Delhi Public School Bhopal	2010	9.80

Academic Achievements

- Secured All India Rank 1562 in JEE-2012.
- Secured All India Rank 460 in AIEEE-2012.
- Awarded Merit Certificate by Central Board of Secondary Education for being among the top 0.1% in Mathematics in All India Senior School Certificate Examination 2012, with a score of 100/100.
- Awarded National Talent Search Scholarship (NTSE) by National Council of Educational Research and Training (NCERT).
- Qualified all the phases of Kishore Vaigyanik Protsahan Yojana (KVPY) – 2012, conducted by Indian Institute of Science (IISc).
- Attended Computing Camp at National University of Singapore on a full scholarship by Science Olympiad Foundation, India.   [December 2011]
- Scored 2270 (710+800+760) in SAT.
- Scored 800 in Math level 2, 800 in Physics, and 800 in Chemistry - SAT Subject Tests.
- Besides IIT Bombay, had successful admissions to University of Cambridge and Nanyang Technological University, Singapore.

Past Internships

- Shopsense – Hackers and Painters Winter Internship Programme 2013   [December 2013]
    - As a part of the internship, worked on developing demo applications for the company.
    - Learnt and developed skills in Python, Photoshop, Qt and Excel.
    - Learnt and extensively used Github to manage code and collaborate.

Projects Undertaken

- Institute Technical Summer Project – Automatic Flight Control System: (Team of 3)
                                                                [Summer 2013]
    - Built a remote controlled aircraft with an on-board autopilot.
    - The aircraft had good flight characteristics, with well determined airfoils.
    - Values (roll and pitch angles) obtained from gyroscopes and accelerometers (best estimates using Kalman Filter) were fed through a PID control loop, and appropriate output was given to servos to maintain the aircraft in a reference position.
- CS 101 Final Project – Secure Database: (Instructor: Prof. Sridhar Iyer)   [Semester 2]
    - As a part of the course CS 101 (Computer Programming and Utilization), wrote a program (in C++) for creating a secure database for storing multiple user information in an encrypted manner.

Positions of Responsibility

- President, Student Council, Delhi Public School Bhopal, 2011-12.
- Vice-Head Boy, Student Council, Delhi Public School Bhopal, 2010-2011.

Technical Activities

- Have taken part in many technical competitions organized at IIT Bombay - such as XLR8 (remote controlled racing bot), Line Follower (autonomous line following bot), RC Plane (remote controlled aircraft).

Software Skills

- Programming Languages: C++, Python, HTML.
- Software packages: Eagle, AutoCAD, Microsoft Office, Adobe Photoshop.

Extracurricular Activities

- Sports:
  - Undertook NSO Swimming in the freshman year.
  - Completed Swimathon 2013 - a swimming endurance event at IIT Bombay. Swam 12.2 km in 12 hours.
- Writing:
  - Won the 1st Prize in WriteUp 3.0, a cultural open competition at IIT Bombay.
  - Working at InsIghT – Student Media Body of IIT Bombay.
  - Frequent blogger.
- Public Speaking:
  - Won the Best Speaker Award in Shri Gurudev Gupta Inter-School Debate Competition, organized at Delhi Public School Bhopal in January 2012.
- Music:
  - Singer and guitar player.
  - Have played at various in-campus concerts (Acoustic Dusk) and competitions (member of the winning band in Freshiezza Phase 2).
- Volunteering:
  - Mentor at Avanti Fellows.   [August 2013 – present]

Additional Learning

- Summer School of Cult – 2013 (IIT Bombay):
  - Hindustani Vocals
  - Japanese
- Coursera:
  - Introduction to Interactive Programming in Python (offered online by Rice University).
  - Introduction to Guitar (offered online by Berklee College of Music).