Sameep Sanjeeva   08D10023
Mechanical Engineering   **Dual Degree (B.Tech+M.Tech.)**
Indian Institute of Technology, Bombay   **Male**
Specialization: Computer Aided Design (CAD) &   **DOB: May 22, 1990**
Automation

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.16
Intermediate/+2	CBSE (Central Board)	RN Podar High School	2008	90.40
Matriculation	Maharashtra State Board	OLPS High School	2006	88.53

Key Academic Achievements:

- Pursuing a minor in Electrical Engineering.

- Awarded the sole AP grade for exceptional performance in the course 'Microprocessors and Automatic Control'

- Awarded HBCSE National Merit Award at the Orientation cum Selection camp of the Indian National Astronomy Olympiad 2007 (Senior) which is awarded to the top 5 students in India.

- Recipient of the prestigious National Talent Search Examination (NTSE) scholarship awarded to 1000 students by the Govt. of India.

- Secured All India Rank 7 in the National Science Olympiad.

Industrial Experience:

Apple Inc. California, USA (iPod/iPhone Product Design Intern)   [May–July 2011]
- Developed concepts and prototypes for a consumer facing product.
- Over 400 hours of experience on 3D solid modeling in NX-CAD.
- Developed modeled, prototyped and assembled numerous prototypes.

CEAT Tyres Ltd., Bhandup Plant, India (VSM team intern)   [June–July 2010]
- Was part of VSM team, which consisted of people from various departments with varied interests, working towards lean production.
- Designed a mechanism to feed bands into the tyre building machine. This mechanism reduced the most effort-intensive part of the tyre building process.
- Conceptualized a system to automate the existing JSP line which reduced man-power required for running the line from 16 to 2.
- Developed a mechanism for green tyre removal from the tyre building machine which resulted in a considerable reduction in the time taken to remove the tyre.

Key Projects:

BAJA Off-road Vehicle (as part of IIT Bombay Racing team)   [July 2009-present]
- Designed the suspension geometry and A-arms of the vehicle for better handling and driver comfort.
- Currently involved in building of the car for the BAJA All-Terrain Vehicle Competition in

January 2011, organized by SAE India.

Guitar Tuner Software (course project in Engineering Design)   [Spring 2010]
- Implemented Fast-Fourier transform, windowing and noise reduction to create software that could recognize the notes that were being played on the guitar and suggest changes to tune the string.

Spoken-Language Translator (course project in Engineering Design)   [Autumn 2009]
- Analyzed design aspects of a translator, including conceptualization, stakeholders, functional analysis, operational scenarios, life-cycle costs, and concept generation.

Unmanned Aerial Vehicle (project under Prof. H. Arya)   [May-July 2009]
- Designed the electronic system for an unmanned aircraft, using a microprocessor, various sensors, GPS, servo control, and RF communication with the ground station.

File Compressor (course project under Prof A. Ranade)   [Autumn 2008]
- Implemented a file compressor based on Huffman algorithm which could compress text-based files up to 40% of their original size.

Computer Skills:

- Microsoft Windows, Microsoft Office, Linux, C, C++
- Technical Software: MATLAB, Mathematica, Solid Works, Ansys, Eagle

Extracurricular Activities:

Technical and Robotics:
- *Enduro:* Built a remote-controlled amphibious vehicle that runs on land as well as water

- *Grid Follower:* Built a small robot that navigates a grid made of white lines on a black surface

Organizational Activities:
- Organized quizzes and speaking events as part of Organizer team of 'Mood Indigo 2008', India's largest cultural fest.

- Led a group of students to help organize 'iNexus' an international competition as part of Coordinator team of 'Techfest-09', IIT Bombay's Technology Festival.

Relevant Courses:

Mechanical Engineering: Solid Mechanics, Strength of Materials, Thermodynamics, Heat Transfer, Fluid Mechanics, Manufacturing Processes I, Manufacturing Processes II, Engineering Metallurgy, Industrial Engineering and Operations Research, Optimization, Introduction to Modeling and Dynamics of Systems

Electrical Engineering: Introduction to Electrical Engineering, Electronic Devices and Circuits, Signals and Systems, Digital Electronics