



Mayank Maloo
Electrical Engineering
Indian Institute of Technology, Bombay
Specialization: Microelectronics

10D070063
UG Third Year(Dual Degree)
Male
DOB: 15-12-1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.35
Intermediate/+2	CBSE	Delhi Public School,Bhilai	2009	93.60
Matriculation	CBSE	Kendriya Vidyalaya,Mahasamund	2007	91.00

ACADEMIC ACHIEVEMENTS

- Recipient of **National Merit Certificate** in **Mathematics** awarded to **top 0.1% students** for securing highest marks in **Class X (CBSE)**. [2007]
- Secured International **rank 458** in **International Mathematics Olympiad** organised by **Science Olympiad Foundation** [2008]
- Recipient of **Merit Proficiency Prize** in **Engineering Drawing** awarded to **top 0.1% students** by **Delhi Public School (DPS), Bhilai** [2008]

INTERNSHIP

- **SIEMENS** Ltd. *Kalwa Works, Mumbai* [June'12-July'12]
Switch Board Factory, ICLMV-Testing division
*Worked as a **Project trainee** analysing Switch Board Factory and achieved following objectives-*
 - **Customized Factory Routine tests** proposing methods for **time optimisation** in *Lean Manufacturing Process* of Circuit Breakers (3AHO, 3AH3, 3AH5).
 - **TESTED** various types of **Medium Voltage Switchboard panels** (8BK80, 8BK88+, NX-AIR) with *Single Line Diagram interpretation* (SLD) along with the *Clients Inspection*(L&T,Mahindra etc.)
 - Studied **Assembly** and **Mechanical operation** of *Vacuum Circuit Breakers* (IVCB and OVCB).

POSITION OF RESPONSIBILITY

- **QEA EDUVENTURES PRIVATE LIMITED** [July '11- Dec '11]
 - Employed as an *Operational Manager* at **Quality Education for All (QEA)**, company set up to mentor high school students regarding the career opportunities.
 - Conducted and organised **School Seminars** by **top ranked IITians** providing guidelines to students for their future.
- **Coordinator, Entrepreneurship Cell (E-Cell),IIT Bombay** [Aug'11-Mar'12]
The Entrepreneurship Cell is the leading entrepreneurship promoting student organisation as recognised by the National Entrepreneurship Network (NEN).
 - Worked to **oversee corporate partnerships** for organising **EUREKA** (*Largest B-Plan Competition in Asia-oceanic region*).
 - Planned and conceptualised the *on-venue branding* for the sponsors during the E-Summit.
- **Organiser** (Exhibitions) in **Techfest ,IIT Bombay, 2010**
 - Worked for the execution of the Full *Throttle Inferno* (FTI), a racing event with a difference, managing around **20,000 crowds** in three days.

PROJECTS UNDERTAKEN

- **MICROCONTROLLER BOARD DEVELOPMENT** [April'12-June '12]
(Guide- Prof M.B.Patil, Electrical Engineering, IIT Bombay)
 - Developed an atmel **AT89c5132 uC-board** with I/O Ports and interfaced peripherals like LCD, Hexpad , Temperature Sensors to test the functionality.
 - The **USB programmability** at low cost makes the board more *economical and user friendly* than other controller boards like Aurdino.
 - This Board will be used by **130 students** in *Microprocessors* lab at *Wel lab,IIT Bombay*.
- **ELECTRONIC CHATTING DEVICE** [Mar'12-April'12]
(Guide-Prof. Joseph John, Electrical Engineering, IIT Bombay)
 - The device displays the text entered using keyboard on **LCD display** and also sends it to another clone device via a wire and vice versa. It can be *used to chat via wire connection*.
 - The device currently uses *serial data transfer* for communication, **FPGA Board** for logic and **hexpad** as keyboard
- **FOOSBALL GAME** [July'10-Nov'10]
(Guide – Prof D.B.Phatak, Computer Science and Engineering, IIT Bombay)
 - Developed a **Foosball game** using **C++ programming** involving Graphics Library Sprite to create the ball field board and players under 13 membered Group.
 - The code involved use of object-oriented programming rendering graphics using **EZwindows API**.

EXTRA CURRICULAR ACTIVITIES

- **CULTURAL**
 - Secured **First position in Freshman** Inter-hostel **Band** competition, as the main instrumentalist (Harmonica Player), IIT Bombay. [Aug'10]
 - **Contingent** in Saaz, a musical competition in **CHAOS** ,annual cultural festival **IIM Ahmedabad** [Jan'11]
 - Part of the **winning** team of **Performing Arts Festival (PAF)**,IIT Bombay [Mar'11]
 - Made a short movie “Rouge”, bagged **fourth** position in Movie making competition [Aug'10]
- **TECH**
 - Designed a **Wireless remote controller F1 car** as apart of 3-membered team under [Sep'10] **Trackmania Competition**, IIT BOMBAY
 - Participated in **Line Follower Competition** organised by Technic Club , designed a bot using Microcontroller coding in **Arduino Kit (Atmega-32 uC chip)** using IR Sensors and Differential mechanism to take turns.
- **OTHERS**
 - Active member, **National Service Scheme (NSS)**, IIT Bombay working in Group for Rural Activities (GRA).

SOFTWARE PROFICIENCY

- **Programming Languages:** C, C++, and Verilog.
- **Packages:** Adobe Photoshop, Sony Vegas, LTSPICE, Quartus, Eagle