



Srijan Dhare
Electrical Engineering
Indian Institute of Technology, Bombay
Specialization: None

100070015
UG Third Year (B.Tech.)
Male
DOB: 12-09-1992

| Examination | University | Institute | Year | CPI / % |
|-----------------|------------|--------------------|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2012 | 7.64 |
| Intermediate/+2 | CBSE | Kendriya Vidyalaya | 2009 | 88.00 |
| Matriculation | CBSE | Kendriya Vidyalaya | 2007 | 90.30 |

SCHOLASTIC ACHIEVEMENTS

- Secured **All India rank 112** among 460,000 candidates (99.88 percentile) in **IIT-JEE 2010**
- Secured **All India rank 1618** among 1,118,000 testees (99.85 percentile) in **AIEEE 2010**
- Obtained **State Rank 3rd** among all OBC candidates in MP Pre-Engineering Test 2010
- Achieved **41st rank** all over India in **10th Senior Mathematics Olympiad** by KVS, New Delhi
- Secured **All India rank 164** in VIT 2008 out of around 310,000 candidates
- Awarded scholarship by **Shri Shivraj Singh Chouhan**, honourable **Chief Minister** of Madhya Pradesh for academic excellence

ACADEMIC PROJECTS

- Home automation system** Aug 2012-present
 - Singlehandedly working to develop **Smartphone operated low-power Switches**
 - Plan includes a GPRS sending device, main server to perform security *check*, and the two-way switch that goes On/Off as guided from Main Server
 - **Aim to give comfort** to Indian population by making it *affordable and easy to install*, and intelligent switches that **save power** – using microcontrollers
- GPS-GSM based vehicle tracking system** Jun-Aug 2012
Guide: Prof. Girish Kumar, EE Department, IIT Bombay
 - Using **AVR studio**, **Eagle** circuit design and some thoughtful coding, made an elegant *Position Tracker* by SIM 900a(receiver) and SIM 908(transmitter) modules
 - Completion of project appreciated by its **commercialization as a product** at SITCOM
 - Made a *Graphical User Interface* using **MATLAB**, acts as gateway to the system
 - Benefits over the existing models – **Speed determination** (a challenging feature), Timestamp, Path display, Google Earth **compatible, cheaper and affordable**
- CTARA water scheme analysis and assessment project** May-Jul 2012
Guide: Prof. Milind Sohoni, Head - CTARA, IIT Bombay
 - Carried out **detailed analysis for functionality of existing water supply schemes** in three major talukas of district Thane – Jawhar, Mokhada and Shahapur
 - Designed Scheme – **proposed an scheme to feed 2 tankerfed zones** having 7-10 villages each, source being the *Middle Vaitarna river*
 - Highlighted the scope of scheme execution to *Zilla Parishad of Thane*, after **designing a feasible pipe layout** (using *Branch and Loop*) and **estimating its cost** to be *INR 49 lakh*

- **Motion based 3-lane Car Racing game** Feb-Apr 2012
Guide: Prof. Sachin Patkar, EE Department, IIT Bombay
 - Gestated a car race game, similar to those in Smartphone via **verilog coding in Quartus II**
 - Game design involves random traffic in designated lanes and a player car on the LCD
 - Controlling done by reading the **accelerometer** output from the **DE0 Nano-board**
- **Remodelled popular PC game “POCKET TANKS”** Oct-Nov 2011
Guide: Prof. D. B. Phatak, CSE Department, IIT BOMBAY
 - Incorporated the Graphical User Interface(**GUI**) to play new pocket tanks on Windows
 - **Developed algorithms in C++** for different type of explosion kicks and dirt fall
 - Led a team of 4 to design 10 game-weapons, all distinct by trajectory, blast and colour

INTERNSHIPS

- **EDFORA – Education For All** May 2012
 - Contributed as an evangelist **for spreading secondary education to poor** by proposing strategies to stakeholders for drawing in the renowned teachers of Mumbai
 - **Relayed mutual benefits and perspectives to HODs** of many coaching classes
- **Ekjaa – Unanimous growth** Dec 2011
 - **Suggested potentially new idea** for “**water supply and sanitation**” for slums
 - Communicated with the directors of Slum Rehabilitation Society(SRS), Apnalaya and **convinced them to accept our detail-oriented idea** for their NGO

COMPUTER SKILLS

- Operating systems : Windows
- Programming Languages : C, C++, Html
- Packages : MATLAB R2010a, LTSpice, EPANET2.0, Photoshop CS3

STREAM COURSES UNDERTAKEN

- Core: Microcontrollers, Electric Machines, Probability, EM Waves, Power Electronics, Communication Signals, Network Theory, Electronic Devices and Circuits, Image Processing, Analog Systems, Digital Systems, Computer Programming and Utilization
- Maths: Differential Equations I and II, Calculus, Linear Algebra, Complex Analysis
- Data Analysis and Interpretation, Experiment and Measurement Laboratory, Sociology

EXTRA-CURRICULAR ACTIVITIES

- **Cycled 27.8 km** – Masjid Bandar to IIT Powai in 3 hours(2011), alone and **self motivated**
- **Good at making approximations, probability and giving speech/presentation**
- Won the **Hostel’s Freshman Performing Arts Festival ‘Color’** in PAF 2011
- **Swam for 9 hours(8.1 kilometres) straight** at IITB Swimmathon 2011
- Player in the hostel swimming *team of four* that achieved **2nd position** in **General Championship 2011**
- Relish ‘writing’ in leisure time, and **enjoy programming in C++, Verilog, HTML**
- **Special Mention** for completing a responsible tenure as the **Convener, Krittika – The Astronomy Club of IIT Bombay 2011-12**