Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.38
Intermediate/+2	CBSE	St. Vivekanand Hr. Sec. School	2012	91.60
Matriculation	CBSE	R.S.V.	2010	9.60

ACADEMIC ACHIEVEMENTS

- Secured **AIR 664** in IIT-JEE 2012 amongst 5.07 lakh aspirants
- Pursuing **Minor** in Electrical Engineering
- Secured Gen. Rank 402 in ISAT 2012 amongst more than 85,000 aspirants
- *District Representative* in Division level Science Quiz Competition 2010

POSITIONS OF RESPONSIBILITY

- **Junior Design Engineer, IITB Racing Club**   *[August, 2013 – till date]*
  - Currently working on the **electrical-differential** of the *electric race vehicle* for the **Formula Student UK-2014 competition**
  - Involved in designing and analyzing circuits for motor driver, analyzing working of various motors
  - Made the **Simulink Model** on **MATLAB** for the **vehicle dynamic analysis**
- **Creatives Coordinator**, Techfest *(Asia's largest Science & Technology Festival)* *[July, 2013 – Jan,2014]*
  - Designed publicity posters using *Adobe Photoshop*

KEY PROJECTS

- **Nonlinear Dynamical Systems and Control |** *Guide : Prof. P S. Gandhi*   *[Dec,2013-Jan, 2014]*
  - Controlled **DC motor with encoder** and applied **closed loop feedback system** to control the desired position using microcontroller **Piccolo Control Stick f28069**
  - Used **Code Composer Studio** to code the microcontroller
  - Used **Enhanced Quadrature Encoder Pulse** Module and **timer interrupt** to control the motor
- **Hand Gesture Robotic Arm**   *[May-June,2013]*
  Project under Institute Technical Summer Projects, 2013
  - Made *the human-like robotic arm controlled by a hand glove*
  - Recognized in **top 5 projects** amongst over hundred summer projects
  - The gesture of our arm is sensed using linear sliding potentiometers and accelerometer and the robotic arm replicates the action of our arm using servo motors and Arduino
- Line Follower Bot   *[September, 2012]*
  The bot follows a white line on black surface autonomously by taking required turns judged by IR sensors and Arduino Duemilanove and senses an object at a distance using proximity sensors
  - Secured 7th rank among 120 bots in Line Follower Competition conducted by Electronics Club
- Wireless Remote Controlled Bot   *[August,2012]*
  Remote Controlled car with differential mechanism
  - Awarded **best designed bot** title in the XLR8 competition for an *innovative control mechanism*
  - Amongst top 10 bots out of over 170 bots conducted by Robotics Club of STAB, IIT Bombay
- COURSE PROJECTS-
  - **Smart Room** | *Guide : Prof. Dipankar Saha*   *[Nov, 2013]*
    - Made the **Simulink Model** and presentation for optimizing the use of electricity

- **4-in-a-row** | *Guide: Prof. Shridhar Iyer*   *[March-April, 2013]*
  Game developed using language C++
  - Involved **Artificial Intelligence** in single player mode
- **Street Fighter** | *Guide: Prof. Shridhar Iyer*   *[February - March, 2013]*
  Game developed using Scratch
  - Interactive 2 player game developed using vector graphics

ONGOING PROJECT

- **Autonomous Football Playing Humanoid**   [*July, 2013 - till date*]
  - Pursuing a target to design a humanoid with artificial intelligence to play soccer and represent IIT Bombay at **Annual International ROBOCUP**
  - Learning **processing** to create a interactive window for controlling multiple servos
  - Working on pressure sensors, accelerometer, gyroscope and servo driver
  - Designed **Solidwork model** of the humanoid

SOFTWARE SKILLS

Mechanical Software
- Simulink & Simscape, LabView : Making Simulation Models
- MATLAB
- Solidworks, AutoCAD : 3D CAD Modeling

Electronics Software
- Code Composer Studio, Code Warrior Development Studio
- Eagle : Circuit Designing
- Processing

Coding Software
- C++,Scratch : Programming Languages
- OpenCV library in C++ : Image Processing

COURSES UNDERTAKEN

Core Courses- Engineering Mechanics, Solid Mechanics, Engineering Graphics and Drawing, Thermodynamics

Elec. Courses- Digital Electronics, Introduction to Electronic Circuit, Control and Communications,
                     Experimental and Measurement Laboratory

Other Courses- Data Analysis and Interpretation, Economics

EXTRA CURRICULAR ACTIVITIES

- Social Service **-** Member of Green Campus family of *National Service Scheme* in first academic year
- Fascinated towards stocks and actively participated in *Virtual Stock Market* contest