Anand Agarwalla
Energy Science & Engineering
Indian Institute of Technology, Bombay

11D170024
UG Second Year
Male
DOB: 13-12-1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2013	
Intermediate/+2	CBSE	Vidya Mandir Senior Secondary School	2010	
Matriculation	ICSE	Vikash Convent School	2008	

ACADEMIC ACHIEVEMENTS

- Achieved an All India Rank of **1212** in **IIT Joint Entrance Examination**-2011 out of around **500,000** students**.**
- Achieved an All India Rank of **5** in the open category in **NSTSE** in the year 2006.
- Achieved the highest percentage in the block in 10th board ICSE.
- Secured All India Rank of 15 in **Odisha Joint Entrance Exam.**
- Scored All India Rank 31 in KIIT entrance examination.

AREAS OF INTEREST

- Statistics and Probability
- Electrical and Electronic circuit
- Management and Finance
- Software Development

COMPUTER PROFICIENCY

Programming Skills – *C++, BlueJ*
Web – Html, CSS (elementary)
Software – *Matlab (elementary),* **SEQUEL** Electronic Circuit Simulator, *MSOffice,* Adobe Photoshop (elementary)
Operating Systems – *Windows, Linux.*

PROJECTS AND WORK

- **Made a graph plotter/paper cutter for the Institute Summer Technical Project** conducted by IIT Bombay.
  A function given as an input can be plotted using a Arduino micro-controller.

- **Demonstrated solar cooking** along with batch mates using different types of **solar cookers, namely Box type and Parabolic dish** and prepared a detailed report for the same.

- **Developed a code for the famous game SUDOKU (9*9) with graphic interface** in C++ by providing a highly user-friendly GUI.
  Guide: Prof. Deepak B. Phatak (CSE Department, IIT Bombay)

- **Built a solar based thermo-couple using Peltier element as a department project** to generate electricity. Water was cooled and heated simultaneously in different containers using solar energy and the difference in temperature was applied across the peltier element having electricity output.
  Guide: Prof. Rangan Banerjee (Dean R & D, Energy department)

- **Analysed the Tata Power Plant power production** and prepared a report as an industrial visit.
  Guide: Prof. Rangan Banerjee (Dean R & D, Energy department)

- **Built an experimental set-up to extract biofuel from jatropha seeds as a science fair project** at district level in the year 2006

- **Built a line following robot for an institute level competition for freshmen**.
  The robot used an **ATMEGA microcontroller** on an Arduino board onto which a **PID algorithm** was ported to achieve smooth line following.

COURSES UNDERTAKEN

Computer Programming and Utilization
Electricity and magnetism
Power Electronics and Machines *
Electronics *
Data Analysis and Interpretation
Environmental Studies
Basics of Micro and Macro Economics
Linear Algebra and Differential Equations
Calculus
Numerical Analysis*
Basics of electrical engineering*
Thermodynamics and energy conversion
Experimental and Measurement lab
Sociology

** - To be completed by April 2013*

POSITIONS OF RESPONSIBILITY

- Was the cultural secretary of Vikash Convent School from 2006-2007.
- Was the **captain** of one of four houses from 2006-2007 in Vikash Convent School.
- Active member of the Dramatics Club of IIT Bombay **"Fourth Wall".**
- **TIFAC** (Technology Information, Forecasting & Assessment Council) coordinator.

EXTRA-CURRICULAR ACHIEVEMENTS

- Played cricket at district level in the year 2006.
- Played Kho-Kho at district level in the year 2006.
- Directed the winning 4 out of 5 videos in the video-making competition at freshiezza 2011.

Additional Points

- Keen interest in writing, acting, directing, playing guitar and dancing.
- Highly interested in developing some alternative source of energy.