Pritesh Mittal **09D17014**
Energy Systems Engineering **UG Third Year(Dual Degree)**
Indian Institute of Technology, Bombay **Male**
DOB: 01-07-1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.66
Intermediate/+2	RBSE	Shivjyoti Sr. Sec. School	2008	86.67
Matriculation	RBSE	Tagore Children Academy	2006	94.33

Internship

Deutsche Bank Group, Mumbai, India **(May-June 2011)**

- Identified and worked on issues of **Report Automation** which resulted in **10%** more automated reports
- Pointed out the **inflation** in **capacity utilization** by analyzing **capacity modeling** & automation data
- Helped designed strategies for the **supply chain planning** of company resources

Ekjaa, Mumbai **(December 2011)**

- Developed a proposal for the integration of NGO Ekjaa with another NGO-Forum For Fairness in Education as a part of social monitoring project

Positions of Responsibility

Co-founder and Marketing Manager, Department Annual Technical Festival – HELIOS (2011-12)

- Designing, conceptualizing and publicizing the competitions, workshops and exhibitions for the festival
- Developing proposals and negotiating to bring in the sponsorship for the same

Co-founder Energy Club **(2011-12)**

- Organizing various lectures, workshops and competitions which altogether aims to increase the energy awareness among students of other departments

Volunteer Rakshak Foundation **(2011-12)**

- Managing the internship program for summer 2012 which involves recruiting 40 students from the top engineering, law and commerce colleges of India
- Responsible for the college contacting, interviewing, mentor contacting and mentor allocation

Coordinator - Mood Indigo (Hospitality, Food & Beverages Team) **(2010)**

- Successfully led a team of 10 students to bring in food sponsorship worth more than a lakh
- Developed proposals and negotiated with retailers including The Paratha House & Chaukhi Dhani

Social Events Secretary – Department of Energy Science **(2010-11)**

- Organized well received cultural & social events to foster interdepartmental interaction

Key Academic Projects

Supervised Learning Project under Centre for Technological Advances in Rural Areas (Jul-Nov, 2011)

- Highlighted the need for rehabilitation of Powai lake by estimating the Nitrogen and Phosphorus content
- Developed a methodology for the estimation of **carbon emission reduction** suggesting **biogasification** for the treatment of mechanically removed water hyacinth

Horizontal Axis Wind Turbine(HAWT): Design and Structural Analysis **(Jul-Nov, 2011)**

- Designed **a 38m HAWT** using **NACA 4415** as airfoil for rotor blades
- Analyzed tensile and shear stress due to various forces at different points of rotor blades

Heat Transfer Simulation **(Jan-Apr, 2011)**

- Simulated, using **Matlab**, heat transfer and temperature profiles of two dimensional simple objects

Evaporative Air Cooler **(Jan-Apr, 2010)**

- Designed an air cooler which provides cool air without increasing the humidity of surrounding
- Used merely water as working coolant and steel pipes as heat exchanger

Unique Identification Device **(Jul-Nov, 2009)**

- Worked in a team of six students to develop a **fingerprint recognition** based identification system
- The **algorithm** returned a match if the input matched a database entry significantly
- Developed a GUI to implement this algorithm for class attendance

Relevant Courses

Management

Industrial Economics - Human Resource Management - Economics - Intellectual Property Rights

Mathematics

Data Analysis & Interpretation - Linear Algebra - Differential Equations - Numerical analysis

Technical Courses

Utilization of Solar Thermal Energy- Equipment design and control - Heat and mass transfer - Power Electronics - Renewable Energy Technologies - Thermodynamics – Waste to Energy

Academic Achievements

- Secured All India Rank 336 (out of 8, 00,000 students) in the AIEEE 2009
- Secured **9th Rank** (of 6, 00,000 students) in Rajasthan Board of Secondary Examinations
- Received awards by **Governor** and **Collector** for performance in Secondary Examination

Software Skills

Programming Languages: C++, HTML, CSS, Elementary VBA

Software Tool: SCILAB, Adobe Photoshop, SEQUEL, LATEX, Mathematica

Technical Activities

Technical Analysis – Smart Grids

- Smart Grids utilize sensors to efficiently distribute electricity based on demand and availability
- Understood and compared it with present day electricity distribution systems

Tata Thermal Power Plant, Trombay

- Understood the functioning of various parts of a power plant in an industrial visit

Wireless Remote Controlled Car

- Designed the chassis and circuit for a wirelessly controlled car for a competition

Extra Curricular Activities

- Received **Hostel PAF Color** for the contributions in Fine Arts and Dancing in the hostel PAF (Institute's dance and drama festival)
- Member of the **winning team** of **Gyrations** (Inter Hostel Dance Competition)
- Stood **Second** in Freshizza's **Movie making Competition**
- Avid interest in Politics