



Shaunak Das
Electrical Engineering
Indian Institute of Technology, Bombay

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B.Tech.
Male
DOB: 20/08/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.41

INTERNSHIPS AND INDUSTRIAL EXPERIENCES

FACULTY OF ENGINEERING, UNIVERSITY OF PORTO

JUNE'11-JULY'11

- Developed Message serialization techniques which were used by the **Portuguese Navy** to deploy Underwater Autonomous Vehicles to monitor a protected harbor area
- Implemented Communication protocols used to build interconnected systems of UAVs, sensors and human Controllers which provided **simpler control** and **better maneuverability**
- Engineered **software base** for better communication between Navy operators and UAVs

CHILDREN TECHNOLOGY WORKSHOP, MUMBAI

MAY'10-JUNE'10

- Designed Robots to participate in the **Indian/World Robot Olympiad** and the First Lego League and built a **Robotic arm** using LEGO Pneumatics
- Designed **cost effective** circuits to replace sensors used in LEGO robotics with same efficiency
- For the **first time** organized **Robotics workshop** for a strength of 100 students in IIT Bombay & represented CTW in an **International technological exhibition** promoting the **overall outreach**

POSITIONS OF RESPONSIBILITY

MANAGER, TECHNOVATION, STUDENTS TECHNICAL ACTIVITIES BODY

MAY'11-TILL DATE

- Leading a **2 tier team of 65 volunteers** to complete **7 large scale students driven Engineering projects**
- Managing a budget of **INR 3,50,000** allocated by **Dean R&D** for development of student projects
- Introduced for the first time a mechanism to ensure regular project updates and **project visibility** and developed effective system for allocation for infrastructure, mentors and volunteers
- Conceptualizing "**Sustainable IIT**" Campaign -A unique initiative to start off engineering projects based on **Renewable sources of energy** in association with **Institute Academic Council**
- Executed an **institute -wide survey** regarding students' choice of research and based on the feedback revamped **project allocation system** for students.
- Initialized Student projects based on **Industry defined Problems** by leveraging **Student Alumni Network** and technical startups to encourage students to work on **Real market problems**

TECHNICAL SECRETARY, HOSTEL-9

AUG'09-MAY'10

- Organized **supervised practices** for the Technical General Championships and implemented creative techniques to decrease **energy consumption** of hostel that improved its ranking from **10th to 2nd**
- Was awarded **Organizational Mention** for accomplishing **3-fold increase** in hostel participation

KEY ACADEMIC PROJECTS

ORGANIZATIONAL COMMITMENT AND ITS ATTRIBUTES (OCNA)

JAN'10-APR'10

- Prepared a **psychometric test** to capture the attitude towards factors that drive Organizational Commitment
- Analyzed results of the survey across sample space of **50 students** across **5 different student Organizations** using statistical tool **Team Climate Inventory** used extensively in **corporate feedback** System

RELAXATION BASED CIRCUIT SIMULATOR (UNDERGRADUATE THESIS)

AUG'11-TILL DATE

- Promises increased accuracy and faster cycles in large digital circuits simulation by developing static timing analyzer: a superior version of the regularly used software SPICE
- Extending application of **BREMICS, simulation software developed** by **IIT Bombay**, in new generation chips

ADDITIONAL LEARNING - MINOR IN ENERGY SCIENCE & ENGINEERING

- Pursuing through additional learning courses including Introduction to **Renewable sources of energy**, **Energy Economics**, **Energy Management**, **Power Generation & Systems Planning** and **Solar photovoltaic: technology and applications** and gaining a **comprehensive insight** in energy field.

EXTRACURRICULAR ACTIVITIES

- Participated in **swarm robotics competition** which included **two autonomous bots** communicating to perform a task while moving on a square maze
- Awarded **Hostel Technical Color** for brilliant performance in Technical General Championship