

Shrikant Zarekar
Second Year Undergraduate
Department of Mechanical Engineering
Indian Institute of Technology Bombay

PERSONAL DETAILS

Date of Birth	14 September 1990
Languages	English, Hindi, Marathi
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Scholastic Achievements

- * Among Top **1%** in IITJEE2007 and **.37%** in AIEEE 2007 amongst 0.3 million students.
- * Secured **Second** position in AISE (All India Science Exhibition) at state level and amongst top ten at national level in 12th grade.
- * secured **First** position in Mental Ability Contest (CMAC).

INTERNSHIP

UROP (ONGOING) OCTOBER -DECEMBER2008

Guide: **Prof. K Iyer**

- * working under UROP (UNDER GRAD RESEARCH OPPORTUNITY) program at IIT Bombay
- * Computational Fluid Dynamics (CFD)
- * Aim to study heat transfer in solid and liquid (conduction & convection) using DELAUNAY

TRIANGULATION.

KEY PROJECTS

Caves and ladder

- * Guide: Prof. **S Sudarshan**
- * Inspired by the popular game Caves and Ladder here we created a interactive game.
- * The game was prepared in C++ and was Displayed using Ezi Windows Interface.

Burglar Alarm

- Guide: Prof. **R Rathode**
- Constructed Burglar alarm using Infra Red LED, BC 1527 & IC NE 555.
- Schmitt trigger circuit was used to give input to the IR LED which fed continues signal to the transducer which when interrupted gave o/p to relay and the siren switches on.

Efficient Electricity using Computer Interface

- Guide : Prof. **Bobhate**
WON AISE AWARD (SECOND PRIZE).
- For the efficient use of electricity in schools and offices this circuit was created.
- Switches the electric equipments according to the curriculum using computer interface.
- Curriculum was fed into the computer using C language which used a relay circuit to switch the electric appliances.

ACADEMIC RECORD

Year	Course/Examination	Institution	Performance
2008(present)	Dual degree (B.Tech +M.Tech)	IIT BOMBAY	6.40
2006	Higher Secondary Examination (equivalent to 12 th grade)	Atomic Energy Junior College ,Mumbai	88.85% Maths (92%)

2004	School of Secondary Examination (equivalent to 10 th grade)	Atomic Energy School, Mumbai	84.20% Maths (95%)
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Courses completed

MECHANICAL ENGINEERING COURSES COVERED

- **Manufacturing Processes (ME 203)**
- **Strength of Materials (ME 202)**
- **Solid Mechanics (ME 201)**
- **Fluid Mechanics (ME 212)**
- **Thermodynamics (ME 209)**
- **Engineering Mechanics (CE 101)**

MECHANICAL ENGINEERING LAB COURSES

- **Experimental Engineering Lab**
- **Manufacturing Practice Lab**
- **Solid Mechanics Lab**
- **Workshop Practice**
- **Engineering Graphics and Drawing**

INSTITUTE COURSES AND LABS

- **Engineering Metallurgy**
- **Numerical Analysis**
- **Data Analysis and Interpretations Linear Algebra and Ordinary Differential Equations I**
- **Calculus**
- **Electric Circuits**
- **Modern Physics(Relativistic Mechanics)**
- **Computer Programming (C++)**
- **Physics Lab**
- **Chemistry Lab**

HUMANITIES AND ENVIRONMENT SCIENCES

- **Economics**
- **Environmental Economics**
- **Environmental studies**

SKILLS

Software's used:	ANSYS, MATLAB, AUTOCAD, MAYA
Programming languages:	C/C++
Operating Systems:	Various flavours of Linux, Microsoft Windows

Positions of Responsibility

- **Coordinator** in Techtronic department of Techfest 2008(Asia's largest fest).
- **Organizer** in Infrastructure department of Techfest 2007.
- **Organiser** in Infrastructure department of Mood Indigo 2007.
- Lead **WWF** (World Wide Fund for Nature) at school level.

- Head boy for two consecutive years at school (2003-2005).
- Persistently participated in debating and personality contest over the years.

EXTRA CURRICULAR ACTIVITIES

- Won **first** prize in shooting competition held at IIT BOMBAY 2007-08.
- Awarded **best physic** of the year consecutively in 10th and 11th grade at school level.
- Awarded Third prize in INCORPORA (stock exchange game) held at IIT Bombay 2007-08.
- Actively participated in **RED CROSS** activities.
- Part of school basket ball team (2003-05).