



Abhi Suri  
Mechanical Engineering  
Indian Institute of Technology, Bombay

09010023  
UG Third Year (B.Tech.)  
Male  
DOB: 3 April 1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.52
Intermediate/+2	HSC	Pratibha Niketan Junior Collage	2008	77.33
Matriculation	SSC	Nagarjuna Public School	2006	91.46

## SCHOLASTIC ACHIEVEMENTS

- Secured an All India Rank of **426** in IIT JEE (May '09) and **490** in AIEEE (June '09)
- Awarded **Certificate of Merit** by State Board for being district topper in class 10<sup>th</sup>
- Recipient of Merit cum Means scholarship at IIT Bombay for excellent academic performance
- Pursuing **Honors degree** in Operations Research and Industrial Engineering

## PROFESSIONAL EXPERIENCE

### INDIAN SCHOOL OF BUSINESS, HYDERABAD

December '11- January '12

- Substantiated an inverted U relationship between product market Competition and Innovation using **Panel Data Econometrics**
  - Performed **Fixed effects regression** using Stata from data on National Bureau of Economic Research website, analyzed industry fixed effects and year fixed effects
- Guide: Dr. Krishnamurthy Subramanian, Department of Finance*

### ThinkLabs Technosolutions Pvt Ltd

May - July '10

*Received letter of appreciation from the Project Manager*

- Completed successfully **Summer Training and Internship Program** in Mobile Robotics at ThinkLabs Technosolutions Pvt Ltd, an IIT Bombay alumnus venture.
- Obtained an extensive training on microcontrollers, AVR programming, IR sensors, sharp sensors, gripper mechanisms
- Built an autonomous robot that could traverse a 6\*6 grid, detect a stationary object and get it back to the starting point in minimum possible time

## KEY PROJECTS

### Minimizing Delay in Train Networks, Operations Research

January '11-Present

- Simulating instantaneous scheduling of trains in a multi-train network for absorbing delays using **dynamic programming** and inventory stochastic models
- Conceptualizing automatic slot allocation for minimizing total delay using **queuing models**
- Optimizing operating costs by introducing slack times for rail freight and passenger services, using **Simplex and Hungarian algorithms** for the same

### Strength of Materials Project

July-November '10

- Prepared a case study of the factors affecting the life of a plough, and identified reasons of failures of different types of ploughs
- Proposed modifications in manufacturing and suggested alternate materials with better properties to be used for increasing productivity

*Guide: Prof. G.V.Prabhugaonkar*

### Unique Identification Project for IIT Bombay using C++

August-November '09

- Involved in developing software to assign a **Unique Identification Number** using **fingerprints** to every IIT Bombay student
- Implemented Code in C++ for Finger-print classification and consolidation
- Designed by creating templates using Minutiae after Thinning of Image
- This project has inspired IIT Bombay in **implementing Biometric attendance** from 2011 onwards

Guide: Prof Deepak Phatak

## SOCIAL INITIATIVE

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### Electrification of Rural India

May-August '11

*Centre for Technology Alternatives for Rural Areas, IIT Bombay*

- Interviewed inhabitants of 8 villages of Nasik district to analyze the problems faced in the current solar electric system
- Formulated a maintenance-free solution by replacing the CFL, and DC-AC convertor between battery and it with LED panel, thus **reducing cost by 70%**
- Pitched this idea to Reliance Infrastructure, thereby getting them interested in the project and eventually involving them as stakeholders
- Findings are presented to the Non Renewable Energy Department, Govt. of Maharashtra

## POSITIONS OF RESPONSIBILITY

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### Core Team Member, Marketing – IIT Bombay Racing Team

September-November '11

*IIT Bombay Racing Team is a group of enthusiastic undergraduates from IIT Bombay who aspire of putting India on the world map of racing car manufacturers. We make a race car all by ourselves and compete in the Formula Student event, UK, with teams from 100 countries all over the world*

- Spearheaded a first of its kind marketing campaign for IIT-B racing team, fetching a record of **INR 5 million** in cash and kind
- Obtained sponsorship for all parts of the car and secured technical assistance to help the team in their manufacturing and testing
- Collaborated with media bodies like the Times Group and Radio Mirchi

### Student Technical Mentor, IIT Bombay

July-November '10

- Mentored over 50 IIT Bombay students over the technical activities happening in IIT
- Conducted seminars and organized practice session, helping them make robots in real time

## EXTRA CURRICULAR ACTIVITIES

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- **Student Journalist** : Editor and Reporter for InsIghT (IITB's student newsletter)
- Member of **Winning Team** of inter hostel **Technical General Championship, 2010-11**
- Represented my district at **State Level Softball Championship** '06-'07
- Selected as a member of **National Social Service** of IIT Bombay in first year

## AREAS OF INTEREST

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Computational Fluid Dynamics, Heat Transfer, Thermodynamics, Electronic Circuits, Kinematics and Dynamics of Machines, Data Structures and Algorithms

## TECHNICAL EXPERTISE

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- Softwares: Auto-Cad, SolidWorks, Matlab, Stata, Scilab, MS Excel
- Programming Languages: C, C++, Java