



Abhi Suri
Mechanical Engineering
Indian Institute of Technology Bombay

09010023
B.Tech.
Male
DOB: 3rd April 1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2013	7.50

PROFESSIONAL EXPERIENCE

Design for Manufacturability Professional (DFMPro) Team

Geometric Limited
Mumbai H.O
May – Jul '12

- Performed a **literature review** followed by a **market research** of existing products to identify shortcomings and suggest solutions for the same
- Designed algorithm to perform **Tolerance Stack Analysis** of mechanical assemblies for DFMPro Software
- Implemented Monte Carlo simulations to improve accuracy of the algorithm
- Algorithm now to be used in upcoming versions of DFMPro

SOCIAL PROJECT

Electrification of Rural India
CTARA, IIT Bombay
May – Aug '11

- Interviewed inhabitants of 8 villages around Nasik to analyze problems in existing solar electric system.
- **Reduced costs by 70%** by replacing the CFL and AC-DC converter system by maintenance-free LED Panels
- Report to be presented to the Non-Renewable Energy Department , Government of Maharashtra

KEY PROJECTS

Performing enterprise-wide optimization for the dairy industry

Operations Management in Dairy Industry
Undergraduate Thesis
Jul '12 – Present

- **Designed optimization model** for the dairy industry, integrating the operations of storage, transportation and supply, to maximize efficiency
- Performing **Non-linear optimization** using **pooling** (mixing various grades of milk) to optimize storage operation
- Applying the transportation algorithm to optimize the path of collection and delivery
- Optimizing the entire process to minimize losses using **branch and bound** techniques on the **mixed integer problem** obtained from overall model

Modelled Poker using Markov Decision Process (MDP) and Game Theory

Poker Model
Jan – Apr '12

- Used Partially Observable Markov Decision Process (POMDPs) to solve a multi-player poker game
- Proposed **algorithm** for **betting strategy** in 10 player poker tournament
- Developed a model based on statistically identifying strategies and potential weaknesses in opponents using **dynamic programming**

POSITION OF RESPONSIBILITY

Representative of Mechanical Engineering students in Institute Placement Team

Department Placement Coordinator
Jul '12 – Present

- Invited alumni working across different sectors to increase student awareness
- Formulated **pitching strategy** to assist the team in targeting companies
- Organized over 20 preparatory sessions - tests, buddy talks, group discussions

CO-CURRICULAR ACTIVITIES

Writing

- Student journalist, Inslght: Published 15+ investigative articles on diverse issues including security lapses, hostel affairs, administration

Miscellaneous

- Winner of Inter Hostel Technical General Championship, 2010 – '11
- **Guinness World Record Holder**: Member of contingent which broke Guinness record for highest number of people solving Rubik's cube simultaneously
- Winner of Bluffmaster (Informal game show) at Mood Indigo '11