



Kapil Wanaskar
Mechanical Engineering
Indian Institute of Technology Bombay
Specialization: Computer Integrated Manufacturing

09D10033
Dual Degree (B.Tech+M.Tech.)
Male
DOB: 18/07/1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	6.54

- Received research internship program **award**, University of Alberta, Canada [‘11]
- Awarded student exchange **fellowship** by Federal Armed Forces University, Germany [‘12]

INTERNSHIPS

University of Alberta, Canada - Received **Letter of Recommendation** [May ‘11 - Jul ‘11]
Investigation of failure mechanisms of cells in oil-sands

- Design of Experiments** - Deployed 3D laser profile technique to detect damage on material wall
- Overcame** component failure challenges by exploiting mathematical model of the phenomenon
- Achieved **45% reduction** in cell damage by proposing and optimizing set of **27** parameters

Helmut Schmidt University, Germany - Awarded **Letter of Recommendation** [May ‘12 - Jul ‘12]
Characterization of microstructure and properties of coatings in spray technology

- Ascertained structural characteristics of material using X-ray diffraction technology, correlated same with properties of work-piece material
- Conceptualized efficiency model of impact process by developing an **algorithm**, accomplished **95%** accuracy

Indian Institute of Management, Ahmedabad - Supply Chain Management [Nov ‘11 - Dec ‘11]
Proposal on national food security system benchmarked with international units

- Critically analyzed operational report of Food Corporation of India (FCI) of last **12** years (2001-12) to identify bottlenecks in distribution system
- Established **9% increment** in channel efficiency through proposing a novel model and collating same with food security units of European Union and North America
- Drafted case report on ‘Collaboration of **Adani Agri Logistics** with FCI’, to be used as teaching aid

KEY ACADEMIC PROJECTS

Vibration check in CNC machining - Master’s Thesis [Feb ‘13 - Present]

- Formulated mathematical models of vibration on **MATLAB**, experimented with process parameters
- Designed 3D model of machine component to analyze and simulate the runtime vibration
- Achieved **8% reduction** in vibration to enhance machine lifetime by **13%**, saving INR **11.3 lakh**

Development of Intelligent Stethoscope - Collaborative Engineering [Jan ‘12 - Apr ‘12]

- Designed an innovative stethoscope to process heart beat information without personnel intervention
- Conducted QFD, AHP, DFM and Fault tree analysis to validate the design and demonstrated prototype to **7** member panel of **doctors** and industry professionals branding it as a **low cost rural** alternative

POSITIONS OF RESPONSIBILITY

Junior Design Engineer - Baja SAE India 2011 [Jul ‘10 - Apr ‘11]

All-Terrain Vehicle racing event, organized by the Society of Automotive Engineers (SAE) India

- Secured **1st position** among **80** teams in ‘RAFTAR’- Award for innovating fastest and lightest car
- Worked with a **team of 20** students from diverse educational background
- Played pivotal role in building the lightest car by designing and fabricating the **customized** gear box

Coordinator, Events - Techfest 2011 [Aug ‘10 - Jan ‘11]

- Brought in **15** professionals from across the country to deliver talks and conduct workshops
- Spearheaded team of **21** volunteers to execute **14** back-to-back events, attended by over **2000** visitors

EXTRA CURRICULAR ACTIVITIES

- Member of NSS (**National Service Scheme**) and worked in Group of Rural Activities
 - Implemented low cost generic drug’s **door step delivery service** for NGO in the village
- Organized **4** inter cultural activities and **2** trips in Canada for **50** students from across the globe
- Avid Traveller** - Backpacked across **9** countries in Europe and North America
- Enjoy adventure sports and **Martial Art** (Yellow belt holder)