

RAGHAVENDRA PRASAD PALLE

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Sciences, PA

December'14

Candidate for Masters in Mechanical Engineering

Indian Institute of Technology, Guwahati, India

July'04 – May'08

Bachelor of Technology, Guwahati, India

PROJECTS

Climate Modeling

- Worked as a research assistant during this summer and currently pursuing a thesis project on "Climate modeling, analysis and a case study of southern ocean"

Sustainability Analysis

- Completed an independent study on sustainability analysis of thermal desalination processes **Spring'13**

Heat Recovery & Energy

- Fabricated a heat pipe and conducted experiments on "Design of a waste heat recovery system for 3-wheeler auto engine using heat pipes" as my B. Tech term project. **July'07 – April'08**
- Conducted experiments on Fluidized bed drier using the samples like Paddy, Saw and bamboo dust etc.
- Assisted in a project dealing with Moisture transfer in building envelopes at IIT Delhi. **Summer'07**

Computational Fluid Mechanics

- Developed own codes for computational analysis for 2-Dimensional shock waves formed along a ramp in a channel and 1-Dimensional shock wave analysis in a tube. **Summer'06**

WORK EXPERIENCE

Indian Oil Corporation Limited, Panipat, India

July'08 – July'12

Senior Mechanical Engineer

- Assisted commissioning activities of an entire 235.5 MW captive power plant which includes 30MW steam turbines, 25MW gas turbines, 405 T/hr Utility boilers and all the steam, air and water networks.
- Supervised Maintenance activities of the above Power plant and utilities after commissioning.
- Participated in various functions trainings on steam turbines at M/s BHEL, Reciprocating compressors at M/s BPCL, Vibration analysis at M/s Vibrotech and system 1 at M/s GE.

SKILLS & PROFICIENCIES

- Computer languages:** C, C++
- Software:** MATLAB, Ferret, CAMSOL, ANSYS, SAP, Solid edge, CAD, Lab view, Microsoft office, Adobe Photoshop.

AWARDS & RECOGNITION

- Rated as an outstanding performer (top 25%) at Indian Oil Corporation Limited, Panipat for the year 2011.
- Improved the performance of vertical pumps by 50% by proposing material modification for bearing bracket bushes at IOCL.
- Won Pratibha award from the state government of Andhra Pradesh for academic excellence.

LEADERSHIP AND SERVICES

- Residence advisor of International House Philadelphia for the year 2013-'14
- Teaching assistant of MEAM 354 (mechanics of solids, junior level), University of Pennsylvania for the spring-'14 semester.
- Deputy Vice Chair of Student Life committee of GAPSA (Graduate and Professional Student Assembly) for the academic year 2012-'13. Representative of Engineering School in GAPSA for the present and previous academic year.
- Board member of GSEG (Graduate Student Engineering Group) at University of Pennsylvania for the present and previous academic year.
- Member of Penn cricket team at University of Pennsylvania for the year 2012-'13.

OTHER INTERESTS

- English literature, novels and magazines.
- Sports: cricket, volleyball and table tennis.
- Latin American dances: Salsa, Zumba.

References

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2. John Bassani,
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