

KAUSTUBH GOSAVI

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OBJECTIVE

A graduate student in Mechanical Engineering interested in energy audits looking for a full time/ Co-op opportunity.

EDUCATION

Iowa State University

Master's, Energy Systems Engineering
GPA: 3.73

Ames, IA, USA
Expected Graduation -August, 16

Relevant Coursework

- Fundamentals of HVAC
- Heating and Air Conditioning Design
- Thermal System Design
- Advanced Energy Systems and Analysis

College of Engineering, Pune

Bachelor's, Mechanical Engineering
GPA: 3.8

Pune, India
May 2013

Relevant Coursework

- Refrigeration and Air Conditioning
- Heat Transfer
- Energy Conservation and Management
- Thermodynamics

WORK EXPERIENCE

Department of Energy (DOE's) Industrial Assessment Center @ Iowa State University

Lead Graduate Student (LGS)

Ames, IA
Sep 14-Present

My responsibilities as LGS include but are not limited to

- Utility bills analysis
- Heading a team of undergraduate students to conduct energy audits (ASHRAE I & II) in manufacturing facilities (21 audits so far)
- Taking on-the-spot measurements with data loggers, pressure loggers, infrared camera, ultrasonic gun, pressure gauges etc.
- Suggesting Audit Recommendations and performing feasibility study for their implementation
- Calculation of potential energy and cost savings
- Determination of implementation cost, study of rebates, calculation of simple pay-back period
- Technical audit report writing and implementation follow up
- I have gained expertise in working with Lighting, Air Compressors, Boiler and HVAC systems.

Tata Technologies Ltd

Engineer, CAE

Pune (India)
July 2013-14

PROJECTS

- Performed CFD simulation of Airbus A320 Heating, Ventilation and Air-Conditioning (HVAC) system for thermal analysis
- Conducted thermal analysis of avionics bay of Sikorsky helicopter (Geometry clean up and Meshing)
- Executed Flow analysis through JCB duct (Geometry Clean Up, Meshing, Simulation and Report Writing)

Forbes Marshall India Ltd

Project Trainee

Pune, India
January - May 2013

- Worked on a project titled: 'Design of Air Preheater and Feed Water Heater for Biomass Fired Packaged Boiler'
- Performed feasibility study on heat recovery and designed an air-preheater.

RELEVANT PROJECTS

Design of HVAC System for Office Building

- As part of HVAC design class (ME442), I designed complete HVAC system for an office building in Des Moines.
- Scope included- Load Calculations (Trace 700), Selection of diffusers and VAV boxes, Duct Design (VeriTrane Duct Design), Duct Layout (Revit), RTU selection.

Design of Geothermal Heat Pump System for Home

- As part of Advanced Energy System Design project, I am designing geothermal heat pump system for my apartment
- Scope- feasibility study, load calculations, system selection, layout, energy/cost savings calculations.

SKILLS

Professional Software Skills

Auto CAD 2014, Trane Trace 700, eQuest

Business Software Skills

Microsoft- Excel, Word, PowerPoint

ACTIVITIES & HOBBIES

- 2014-Present: Activities Co-Chair, ASHRAE Iowa State Chapter
- 2011-13: Founded and served as secretary of COEP AERO ZEALOUS (a collegiate aero modeling club)
- Hobbies- playing basketball, watching movies, sight-seeing, technology news following, listening music

HONORS & AWARDS

- 2015-16 :ASHRAE Iowa Chapter Student Scholarship
- 2009-2013 : Central Sector scholarship for outstanding academic achievement from HRD ministry of Government of India