

MECHANICAL ENGINEERING TUTOR

Summary

Driven and a self-motivated Mechanical Engineer with experience teaching Mechanical Engineering courses to undergraduate students. Seeking opportunities to use those concepts in the field of Construction and Management.

Highlights

Microsoft Office (Word, Excel, Power Point, Outlook), AutoCad,

Experience

September 2014 to September 2015

Company Name Mechanical Engineering Tutor

- Subjects tutored- Mechanics, Probability and Statistics, MATLAB, Operations Research, Calculus.
- Helped students understand the basic concepts of Physics and Calculus.

July 2013 to April 2014

Company Name Assistant Professor

August 2011 to July 2012

- Developed coursework and took lectures for 120 undergraduate students.
- Subjects taught Heat and Mass Transfer, Strength of Materials.
- Mentored a group of 4 undergraduate students for their final year project titled "Generating Fuel from Algae".
- Faculty In-charge Mechanical Engineering students association (MESA) chapter.
- President-Indian Society of Heating, Refrigeration and Air Conditioning Engineers college chapter.

April 2010 to August 2013

Company Name Intern

- Design Project: Development of Central Chilled water plant system layout for a 45000sq. ft.
- Retail outlet.
- Studied the project life cycle management of the System.
- Headed the Intern team and presented weekly progress reports to the Lead Design Engineer Academic Projects: Analysis of LASER Cladding at IIT Bombay.
- Studied the effects of Laser Cladding by Preplaced powder method on mild steel.
- Calculated the effects of different parameters affecting the LASER clad.
- Reduced the usage of powder by 30% and LASER power by 20% Banking Database Management System.
- Designed a banking database management system for bankers which could calculate the credit score for new customers.
- Designed and created a database in MySQL.
- Implemented GUI in Excel using VBA Optimization and Scheduling of Shifts for Police Department.
- Determined optimum shift timings for police officers and allocated appropriate shifts.
- Analyzed publicly available data from a website.
- Developed models for optimizing the availability of police officers.
- Used Excel and AMPL for solving these models and scheduling the officers based on each model.

Education

May 2016

Arizona State University

Industrial Engineering

Master of Science Industrial Engineering 3.15

May 2011

University of Mumbai

Mechanical Engineering

Bachelor of Engineering Mechanical Engineering 3.9 Sustainable Energy Sources, Project Life Cycle Management, Design of Engineering Experiments, Probability and Statistics, Heat and Mass Transfer

Interests

Volunteer Teacher, Akanksha Foundation, May 2008 - Aug 2013 *Helped students from the underprivileged sections of the society to understand basic concepts of Mathematics *Coach for their Cricket and Field Hockey teams

Skills

Academic, AutoCad, banking, basic, Calculus, credit, database, Database Management System, Engineer, Experiments, GUI, LASER, layout, Materials, MATLAB, Mechanical Engineering, Excel, Microsoft Office, Outlook, Power Point, Word, MySQL, Optimization, Physics, Police, progress, Research, Retail, Scheduling, Statistics, VBA, website

Additional Information

- Activities: Volunteer Teacher, Akanksha Foundation, May 2008 - Aug 2013 *Helped students from the underprivileged sections of the society to understand basic concepts of Mathematics *Coach for their Cricket and Field Hockey teams