MECHANICAL ENGINEERING INTERN

Summary

Highly motivated mechanical engineering student (EIT) interested in pursuing an engaging position in the corporate setting to implement skills honed through years of engineering background. A dedicated student with problem-solving, leadership, and communication skills along with the capability to build relationships and work in a team-oriented environment.

Highlights

- Proficient in SolidWorks Linear Control
- AutoCAD Solid Mechanics
- Engineering graphics and design Microsoft Word
- Fluid Mechanics Microsoft PowerPoint
- Thermal Analysis Project management
- Heat Transfer Time management skills
- Statics/Dynamics Written and verbal communication skills
- Material Science
- Engineering Probability and Statistics Academic, acrylic, AutoCAD, CAD, concept, Engineer-in-Training, estimating, drawing, graphics and design, Laser,
- Material Science, Microsoft Excel, Microsoft PowerPoint, Microsoft Word, design process, progress, Project
- management, Reporting, research, robotics, safety, SolidWorks, Statistics, Time management, verbal communication
- skills, weighing, Written

Experience

Company Name City , State Mechanical Engineering Intern 09/2015 to Current

- Worked with a team of four people in UCSD's MAE 3 class to build a mobile robot.
- Evaluated parts of the robot using components such as springs, high-speed motor, and geared motor Analyzed and assessed progress of the project by using a Gantt chart Directed the group in the areas of design process and concept generation Energy Analysis Determined the mobility of the robot by estimating the energy and power transfer that occurs from the motor to the wheels of the robot Calculated the torque on the wheels, friction force of the floor, and other values such as factor of safety and desired time of travel AutoCAD Software Utilization Developed drawings of a clock and archived CAD files and drawing documents Implemented the CAD files into the Lasercamm (Laser Cutter) and produced the designed clock made of acryli Reporting/Grading Worked as an Academic Employee (Grader) for UCSD's MAE 105 class Communicated the graded results to the professor and expressed them through histograms by Microsoft Excel Assist in the assembly and manufacture of prototypes Utilize manufacturing methods, fabrication, and product designs Design and detail prototypes using SolidWorks Research and analyze customer design proposals, specifications, and other data.

Company Name City , State Systems Engineering Intern 05/2014 to 03/2015

- Responsible for the operations of crystallization robotics and compound management.
- Use automated instrumentation to support protein crystallization efforts.
- Assist with daily order fulfillment (weighing and transferring research compounds).
- Stock solution preparation and rotation.

Education

BACHELOR OF SCIENCE : MECHANICAL ENGINEERING University of California , City , State MECHANICAL ENGINEERING Engineer-In-Training (EIT) Certified October 2015

Interests

Teaching Assistant (2011-Current) TA for the kindergarten ministry at Dong Shin Presbyterian Church Supervise about 20 kindergartens every Sunday Discipline them to behave and coordinate activities such as games, birthday parties, and field trips PAL (Partners at Learning) Program (2014) Academic mentoring of third grade students at El Toyon Elementary, an educationally underrepresented area of San Diego Assisted the children with academic support and moral encouragement ADDITIONAL INFORMATION VOLUNTEER Teaching Assistant (2011-Current) TA for the kindergarten ministry at Dong Shin Presbyterian Church Supervise about 20 kindergartens every Sunday Discipline them to behave and coordinate activities such as games, birthday parties, and field trips PAL (Partners at Learning) Program (2014) Academic mentoring of third grade students at El Toyon Elementary, an educationally underrepresented area of San Diego Assisted the children with academic support and moral encouragement

Additional Information

- INTERESTS Teaching Assistant (2011-Current) TA for the kindergarten ministry at Dong Shin Presbyterian Church Supervise about 20 kindergartens every Sunday Discipline them to behave and coordinate activities such as games, birthday parties, and field trips PAL (Partners at Learning) Program (2014) Academic mentoring of third grade students at El Toyon Elementary, an educationally underrepresented area of San Diego Assisted the children with academic support and moral encouragement ADDITIONAL INFORMATION VOLUNTEER Teaching Assistant (2011-Current) TA for the kindergarten ministry at Dong Shin Presbyterian Church Supervise about 20 kindergartens every Sunday Discipline them to behave and coordinate activities such as games, birthday parties, and field trips PAL (Partners at Learning) Program (2014) Academic mentoring of third grade students at El Toyon Elementary, an educationally underrepresented area of San Diego Assisted the children with academic support and moral encouragement

Skills

Academic, acrylic, AutoCAD, CAD, concept, Engineer-In-Training, EIT, estimating, drawing, graphics and design, Laser, Material Science,

Microsoft Excel, Microsoft PowerPoint, Microsoft Word, design process, progress, Project management, Project management, proposals, Reporting, Research, robotics, safety, SolidWorks, Statistics, Time management, verbal communication skills, verbal communication skills, weighing, Written