Alex Monjaraz

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Houston, Texas 77093

OBJECTIVE

Motivated computer science student and engineering graduate looking to leverage experiences in product engineering with a business and team driven mindset into a software engineering internship.

EDUCATION   Graduation

University of Houston, Houston, Texas   May 2017
- **Post-Bac -Computer Science**

Texas A&M University, College Station, Texas   Dec 2014
- **B.S - Aerospace Engineering**

EXPERIENCE

LUC – Technologies LLC, Houston, Texas   Feb 2015 – Jun 2015
Product Engineer
- Modified engineering drawings to meet customer specifications during the quoting process using SolidWorks.
- Managed the receiving and inspection of incoming components to assure that quality and specifications were met.
- Managed final inspection and shipping of finished goods to verify that customers received quality products. This also involved implementing a traceability program for our largest customer Halliburton.
- Developed work instructions, forms, and procedures to structure work flow for a new quality system.
- Contacted vendors for quoting and purchase order updates on buyout components.

Formula SAE Race Car Project, College Station, Texas   Aug 2013 - Jun 2014
Aerodynamics Team Leader
- Led a team that designed, manufactured, and tested aerodynamics devices for a formula style race car.
- Developed performance requirements for the design using engineering fundamentals, CAD, and simulation software.
- Manufactured the aerodynamic using composite lay-ups, machining, mold making, and welding.
- Validated our designs using full scale wind tunnel experiments and multiple track test days.
- Interfaced with other groups using a systems engineering approach from the conceptual stage until testing.
- Coordinated assignments throughout the project for team members and volunteer students.

Oceaneering International, Inc., Houston, Texas   May 2012 - Aug 2012, Dec 2012 - Jan 2013
Pipeline Repair Systems Engineering Intern
- Improved a ball-connector flange design, valued at over $50,000, using SolidWorks to minimize failure during installation. The modification is currently being implemented successfully.
- Updated engineering drawings, BOMs, and assembly instructions for subsea flange designs.
- Developed a better understanding of project lifecycles including project bids, quality inspection, and delivery.

Aldine Senior High School, Houston, Texas   Dec 2015 – Jun 2016
Physics Teacher
- Created engaging physics content to communicate course material to 140 students using lab equipment and presentations.
- Collaborated with the physics faculty team to schedule course content and meet state requirements.
- Performed teaching related duties including classroom management, grading assignments, and providing tutorials.

HONORS AND AWARDS

Formula SAE West Competition: 2nd Place Team Overall   Jun 2014
- International design competition that evaluates prototype race cars based on performance, engineering design, and cost.
- This competition is held in Lincoln, Nebraska and involves over 60 universities.

Texas A&M Engineering Project Showcase: 2nd Place Student Design Team   May 2014
- This event featured approximately 150 projects developed by engineering students.
- Projects were placed in 4 categories and evaluated by industry professionals.

SOFTWARE SKILLS

- Programming: C++, JavaScript, Java, Linux, PHP, MySQL, HTML, Arduino, Github, G-Code
- Engineering: SolidWorks, AutoCAD, Inventor , Star CCM+ CFD, MATLAB, Maple, MACH 3
- MS Office: Word, Excel, Outlook, Access