

LIBNI MARIONA

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EDUCATION:

Bachelor of Science in Mechanical Engineering

Florida State University
May 2018

Associate in Arts

Tallahassee Community College
May 2014

TECHNICAL SKILLS:

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| <ul style="list-style-type: none">• SolidWorks• Pro-E (PTC Creo)• Revit• Manufacturing | <ul style="list-style-type: none">• Matlab• Mathcad• LabVIEW• MS Office Suite (Excel, PowerPoint) | <ul style="list-style-type: none">• AutoCAD• MIG and Arc Welding• C++, C• Finite Element Analysis (FEA) |
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WORK EXPERIENCE:

Mechanical Engineer Intern

Nov. 2017- Present

Florida State University Utilities & Engineering Services (Tallahassee, FL)

- Construct demolition plans for heat exchanger and surrounding piping.
- Draft and analyze AutoCAD drawings, piping and instrumentation diagrams.
- Survey several job sites with experts in the field.

Technology Intern

May 2017- Aug. 2017

TLC Engineering for Architecture (Tampa, FL)

- Used Revit to design detail components of security systems.
- Collaborated effectively with engineers inside and outside of the company to complete projects by their deadlines.

Inspector

May 2012- Aug. 2012

Sid Wainer & Son Inc. (New Bedford, MA)

- Promoted to warehouse inspector two weeks after being hired.
- Provided daily reports on status of product stored and received.

Technician

Apr. 2010- Feb. 2011

Pioneer Basement Waterproofing Inc. (Westport, MA)

- Aided customers in English and Spanish with detailed information of products provided.
- Performed reparations of sump pumps and dehumidifiers.

Inspector

Sep. 2008- June 2010

Niche Inc. (New Bedford, MA)

- Promoted to inspector of parachute assembly, packaging, and distribution after 3 months.
- Participated in the expansion of the company from having 50 employees to around 500 employees.
- Managed groups varying from 15 to 20 workers in which the parachute was being assembled and packaged.

PROJECTS:

Senior Design Project: Kite Generator

- Designed a system that can generate power from wind that is cost effective and user friendly.
- Communicated effectively with sponsor, advisors, and team members.
- CAD engineer on the project.

Low Powered Winch

- Designed a gear train system for a winch that is powered by 4 AA batteries to pull a 10 lb weight 2m across the floor.
- Created a 3D model, a detailed stress and strain system analysis.
- Communicated and worked in the machine shop to create and assemble the prototype.

Open Design Project: Home Control System

- Used a Dragon 12 Plus micro-controller to simulate a home control system that included an alarm, outside sprinklers, automatic blinds, and music player.
- Developed a code for the home control system that was easy to use.

Autonomous Palm Pruning Device

- Coordinated with 5 other engineers on a design team to create a Palm Pruning Device.
- Failure analysis, cost analysis, HOQs, Fault tree probability and various research methods were used to complete the project.
- Finished 3rd best out of 20 groups.

LANGUAGES:

- Fluent in Spanish
- Comprehend Portuguese

SOCIETIES:

Society of Automotive Engineers
American Society of Mechanical Engineers
Society of Hispanic Professional Engineers