

Joshua T. Craig

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Full Stack Developer Portfolio: <https://jcraig451.github.io/Portfolio/>

Education

University of North Carolina at Charlotte

BS Mechanical Engineering

Full Stack Web Development Bootcamp UNCC

Graduated Dec. 2014

2020

Career Objective

Mechanical Design Engineer with five years of experience directly working on full life cycle design and manufacturing while obtaining customer satisfaction. Wanting to obtain a advance product development position in a high energy and challenging environment to utilize my engineering, full stack web developer knowledge and personal communication skills gained through work experiences.

Work Experience

Available for Travel

TTI Floor Care Hoover Oreck & Dirt Devil Vacuums, Design Engineer

Oct. 2019 – Current

- Developed multi-level level top down mechanical-electrical assemblies using Creo in parallel with other colleagues in order to develop new products.
- Created skeleton structures to drive multi-part assemblies in Creo.
- Work directly with Industrial Design Engineers and Project Development Engineers in order to design esthetically pleasing yet functional designs for the vacuum product line.
- Fabricate, build and design using 3D printers for plastic part assemblies before having parts be molded for product launch.

Vanguard Pai Lung Circular Knitting Machines, Product Design Engineer

July 2015 – Oct. 2019

- Worked in an independent project design structure with minimum oversight from management.
- Conducted design meetings/reviews with engineering technicians and oversite management for engineering changes and new product design.
- Used engineering fundamentals and experience to solve complex mechanical assemblies, orally communicate ideas and issues to technicians, management, vendors and customers.
- Developed proficient knowledge of building mechanical assemblies and drawings in both “Top-down” & “Bottom-up” design using Creo 3.0
- Designed, constructed and tested knitting machines from conceptual ideas to finished working products. Helped expand company product line through innovative machine designs while independently working on multiple projects in parallel.
- Worked hands on with machining/power tools for developing parts and new machine builds with technicians, both on and off site.
- Performed engineering design changes while reducing cost and increasing product performance.
- Reverse engineer competitor’s products to reduce cost and improve company’s product line using tools and programs such as the FaroArm and CAD Software.
- Modified and created product parts catalogs for customers and technicians.

IJUS Duke Energy Contractor, Engineer I

2014-2015

- Performed engineering analysis on Duke/Progress Energy distribution power poles with SpidaCALC software for joint-use purposes
- Designed and implemented various remedies and solutions to overloaded/failed distribution power poles
- Traveled and exercised field engineering applications in both North/South Carolina with understanding and demonstrating Duke Energy’s zero injury work culture
- Field experience included training technicians and collecting raw data with a tough book and Hot Stick on Primary/Secondary Power Poles, reviewing post collection

Electrolux Fabric Care Division, ME Quality/Cost-Out Intern

2013-2014

- Helped design and build proof of concept disposable lint screen filters for Electrolux dryer platforms
- Thermocouple instrumentation of washer/dryers performing test experiments and analyzing raw data
- Created detailed engineering reports for control board software upgrades
- Efficiently worked in model shop environment for fabrication design

Design, Instrumentation & Planning Program Skills

- Creo 3.0, Pro-Engineer, FaroArm, MathCAD, CATIA, SpidaCALC, SolidWorks, Microsoft Office Suite HTML, CSS, JavaScript, Visual Studio Code

References – Available on Request