

Haley Hughes

18311 Westlock Street • Tomball, TX 77377 • (814)-243-4890 • haley-hughes@hotmail.com

EDUCATION

Penn State Erie, The Behrend College, Erie PA

May 2014

Bachelor of Science in Mechanical Engineering Technology

COMPUTER SKILLS

MathCAD

NX

Visual Basic

Pro/ENGINEER

TeamCenter

SAP

Inventor

Microsoft Project

PTC Creo

AutoCAD

ANSYS

Microsoft Office

ENGINEERING EXPERIENCE

Rotational Engineer- FMC Technologies, Houston TX

June 2014- Present

A two-phase program designed to provide a broad knowledge base to engineers.

Phase 1- Shop Assembly and Field Operations:

- Gained hands on experience while assembling, testing and troubleshooting subsea oil and gas equipment with technicians in multiple shop areas including well access systems, manifold and pipeline systems, and refurbishment
- Designed a shop tool to improve the efficiency as well as the safety of a shop procedure
- Performed installation procedures for surface wellhead equipment in the field
- Executed testing procedures in the field to test the efficiency of R&D equipment and provide results to customers

Phase 2-Quality, Engineering, and Manufacturing:

- Analyzed R&D equipment to make efficiency improvements and developed a maintenance procedure to implement the needed improvements
- Collaborated with technicians, HSE and quality personnel to perform equipment updates and testing prior to putting equipment into service
- Provided cost analyses for equipment updates and presented these to upper management to gain approval for purchase of equipment
- Prepared quality analyses for multiple customers on a joint venture project
- Developed a visual basic program to improve the documentation recording process
- Executed planning of equipment processes to efficiently get equipment built and tested while meeting customer deadlines
- Provided manufacturing support via lean manufacturing in the sensor harness and electrical flying lead test cell.
- Established mobilization and demobilization procedures for refurbished equipment to provide customer success
- Investigated non conformances on equipment to establish a long term solution and meet customer needs

REFERENCES UPON REQUEST

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- Dispositioned quality notifications found in the shop and worked directly with lead technicians to troubleshoot equipment issues

Engineering CO-OP- FMC Technologies, Houston TX

November 2012-June 2014

- Achieved an understanding of a new CAD package by completing an extensive training program
- Performed calculations for the design of subsea wellhead fasteners
- Completed solid models and drafting documents for subsea drilling equipment
- Composed installation and testing procedures for subsea drilling equipment

Engineering Intern – Eriez Magnetics, Erie PA

January 2012-November 2012

- Prepared 3D models and working drawings for various machine orders to be used for production
- Updated old orders and converted all files for placement in a new vault software
- Researched alternative welding methods to optimize the manufacturing process of food grade trays

Engineering Design Project- Orbis Corporation

September 2013-May 2014

- Optimized the design of a plastic injection nozzle to meet requirements set by the company
- Performed heat transfer analysis and calculations to provide an efficient design saving the company upwards of one million dollars
- Calculated stresses and performed weight reduction calculations to meet OSHA lifting requirements

WORK EXPERIENCE

Sales Associate - Famous Footwear, Grove City PA

2009-2011

- Identified customer needs and assisted them in selecting a pair of shoes
- Focused on customer service and handled customer complaints with sensitivity

ACTIVITIES

Rotational Engineer Buddy Mentor- FMC Technologies

Assistant Cross Country/ Track Coach- Northwest Flyers Track Club

VOLUNTEERING

Houston Food Bank- Houston, TX

- Prepared boxes of food for low income families in the city of Houston

Habitat for Humanity- Erie, PA

- Participated in the building of a home for a low income family in Erie Pennsylvania

Target Hunger- Houston, TX

- Demonstrated the value of collaboration planting family gardens to provide fresh produce to low income families

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