

Andrew Doyle, EIT

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Education

BSME, Mechanical Engineering

University of Pittsburgh

Apr 2020

Pittsburgh, PA

- Certificates: Simulation in Engineering Design, Nuclear Engineering
- NASA Student Launch rocketry team sub-team Lead for Mechanical Simulations (FEA, FMEA, Reporting & flight characteristics and calculations)
- Undergraduate Research Helper in Physical Metallurgy and Materials Design Lab (surface prepped inconel alloy samples and evaluated under an optical microscope for further evaluation under a SEM microscope)

Projects & Skills - andrewfdoyle.github.io

Remote Handling Apparatus for Irradiated Environments

Senior design team of 4 ME students. Delivered design for robot arm to navigate a 2' array with obstacles and complete an objective on the opposite side. Did mechanical design in SOLIDWORKS for the arm segments. Completed FEA static structural analysis after hand calculations.

skills - SOLIDWORKS, FEA/ANSYS, project management, mechanical design

Rocket Stove Design & Fabrication

Hand sketched and then refined the design in Fusion 360. Created stove with 3/16" square tube welded with 3/32 7018 rod for main body pieces and 3/32 6011 for 1/8" plating.

skills - Fusion 360, Stick Welding, material procurement

Hand-Carry Reheat Campfire Pit

Designed and made custom reheat imitation "Solo Stove" from hardware store material for high burn efficiency and minimal smoke.

skills - fabrication with metal products, principles of heat transfer

Replacement Honda Key Fob

Using photo canvas in Fusion 360, created a new key Honda key fob after the previous OEM part broke.

skills - Fusion 360, 3D printing, mechanical design

Task Management Check List - Lean Project [Wesco]

Created a daily-updated centralized visual task management board in Excel for a primary department task to replace manual and unstandardized tracking of task progress saving between estimated 300 man-hours a year.

skills - Excel, Power Query, project management

Other - Stick Welding, MATLAB, C++, C, L^AT_EX, MS Word, MS Power Automate, HTML, CSS

Experience

Analyst - Data Governance

Wesco Distribution Inc

May 2022 - Apr 2025

Pittsburgh, PA

- Maintained the master record of supplier data at Wesco, especially for tax and bank information
- Worked on creation of new team stand-up meeting daily board using Excel, Power Query and automatically generated daily system report .csv file
- Introduced automation task capture using Power Automate for tasks from an email into a shared spreadsheet
- Assisted Power Automate bot that increased project response rate by over 100% of prior method for insurance compliance

Customer Service Associate

Lowe's Company

May 2021 - Aug 2021

Pittsburgh, PA

- Maintained Lumber & Building Materials section, cut lumber to size, assisted other departments

Customer Contact Representative

American Eagle Outfitters

Oct 2020 - Jan 2021

Remote

- Consistently resolved among the most of issues in customer or store employee calls during peak season