Andrew Doyle, EIT

✉ andrewfdoyle@proton.me   📞 724 940 1947   🏠 andrewfdoyle.github.io

Education

BSME, Mechanical Engineering *2020*
University of Pittsburgh   Pittsburgh, PA
- Certificates - Simulation in Engineering Design, Nuclear Engineering

Projects & Skills - andrewfdoyle.github.io

Remote Handling Apparatus for Irradiated Environments
Senior design team project in a 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 a robot arm minus an end effector. Completed complimentary FEA static structural analysis to hand calculations.
skills - SOLIDWORKS, FEA/ANSYS, project management, mechanical design

Local Inventory Database System
Home database to manage food waste by sending automatic grocery lists to user by email based on inventory. Used Raspberry Pi to host a local LAMP server database for fridge and pantry items. Used barcode and OCR data entry for new food items.
skills - Python, MariaDB, SQL, embedded programming, breadboard circuitry, user interaction design

Hand-Carry Reheat Camp fire
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 capture, statics, and principles of materials to design $100+ dollar replacement part for several cents.
skills - Fusion 360, 3D printing, mechanical design.

Home Multi-use Workbench, Saw & Assembly Table
Created table frame for woodwork and general use out of construction lumber refined with a worksite table saw as a makeshift jointer for more precise dimension.
skills - Fusion 360, material properties, mechanical design.

Other - Stick Welding, MATLAB, C++, C, LaTeX, MS Word, MS Power Automate, HTML, CSS

Experience

Analyst, Data Governance *2022-present*
Wesco Distribution Inc   Pittsburgh, PA
- Manages the data of new supplier records Wesco purchases from to mitigate risk. Reviews changes to existing records, especially banking and tax information.
- Implemented several process efficiencies including (but not limited to) automated maintenance task capture from Outlook to Excel online, automated initial screening for duplicate records in pending requests.

Customer Service Associate *2021-2021*
Lowe's Company, *Lumber & Building Materials*   McCandless, PA

Customer Contact Representative *2020-2021*
American Eagle Outfitters   Remote
- Consistently resolved among the most of issues in customer or store employee calls during peak season.

Simulation Team Lead *2019-2020*
University of Pittsburgh, NASA University Student Launch Initiative   Pittsburgh, PA
- Oversaw and contributed to report writing for simulations of flight characteristics from OpenRocket, FMEA across sub teams of the flight vehicle, performed FEA simulation on thrust plate for competition.

Undergraduate Research Assistant *2019-2020*
University of Pittsburgh, Physical Materials & Metallurgy Lab   Pittsburgh, PA
- Performed sample surface processing for Inconel alloy samples, made Brinell hardness measurements, inspected under optical microscope for further evaluation in a SEM microscope.