

Andrew Doyle, EIT

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Education

BSME, Mechanical Engineering

University of Pittsburgh

2020

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 the arm segments. Completed FEA static structural analysis after 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 LAMP stack 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 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, recreated a hundred or so dollar Honda Key hob several cents 3D printing out each half and heat sealing the key stem inside.

skills - Fusion 360, 3D printing, mechanical design

Multi-use Workbench, Saw & Assembly Table

Created table frame for woodwork and general shop use from ripped down 2"x10" into 2"x4" joined with screws and half-lap joints.

skills - Fusion 360, material properties, mechanical design

Other - Stick Welding, MATLAB, C++, C, L^AT_EX, 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 surface processing for Inconel alloy samples, made Brinell hardness measurements, inspected under optical microscope for further evaluation in a SEM microscope.