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### Education

### **BSME**, Mechanical Engineering

2020

University of Pittsburgh

Pittsburgh, PA

Certificates - Simulation in Engineering Design, Nuclear Engineering

AS, General Studies

2017

Community College of Allegheny County (CCAC)

Pittsburgh, PA

# Projects & Skills - andrewfdoyle.com

#### 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

### Yellow Belt Project, Lean

Supervisor-sponsored project to create standardized reporting for primary department task. Transitioned from manual tracking to semi-automated, standardized format using system reporting of pending tasks. Developed solution with a Kaizen team, and gathered team feedback to find problem area.

skills - MS Excel, Power Query, Lean methods, project management

Other - FDM 3D Printing, Stick Welding, MATLAB, C++, C, Woodworking, LATEX, MS Word, MS Power Automate

# 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 Pittsburgh, PA

University of Pittsburgh, Physical Materials & Metallurgy Lab

 Performed sample surface processing for Inconel alloy samples, made Brinell hardness measurements, inspected under optical microscope for further evaluation in a SEM microscope.

**Peer Math Tutor** 

2016-2016

CCAC

Pittsburgh, PA