Andrew Doyle, EIT

andrew.fowler.doyle@gmail.com 724 940 1947 andrewfdoyle.com

Education & Certifications

Lean Yellow Belt *2023*
Wesco Distribution

Engineer in Training (EIT) *2021*
NCEES - ET030017, passed FE Mechanical exam on first attempt

Mechanical Engineering, BSME *2020*
University of Pittsburgh
- Degree Certificates - Simulation in Engineering Design, Nuclear Engineering
- NASA Student Launch - Simulation Team Lead
- Physical Metallurgy & Materials Design (PMMD) - Lab Undergraduate Researcher

General Studies, AS *2017*
Community College of Allegheny County
- Math Tutor

Experience

Analyst, Data Governance *2022 - Present*
Wesco Distribution
- Manages and creates master supplier data for payment, purchase and tax filing

Lumber & Building Materials Associate *2021*
Lowes Company

Escalated Customer Relations Associate *2020*
American Eagle Outfitters
- Consistently handled the most calls per day for store and customer phone issues spanning North America

Portfolio Projects & Skills

Projects hosted on andrewfdoyle.com (updates in progress!)

Workplace Automations (Wesco)
- **ETL Pipeline** - Used Power Automate to parse Outlook HTML into JSON to send work case requests to dynamically update a shared excel table
- **Excel formula** - Determines which day of the month to use if the 2nd Thursday of the month is less than 10 business days away, and it saves an estimated 7 hours a year
- **Lean Yellow Belt** - Solutioned manual tracking in a team of 4 using Lean methods like Kaizen for a tracker that sources from automated report data. This captures more data resolution quickly, and reduced key-in error

Skills: *Power Query, Power Automate, Excel*

Local Inventory Database System (LIDS) Pantry Manager
Created a food pantry database to inform shopping and reduce waste using a LAMP (Linux, Apache, MariaDB PHP) stack server on a Raspberry Pi connected to a barcode scanner for item entry
Skills: *Python, SQL, Physical User Interface Design*

2N DOF Robot Arm for Hazardous Environments
Senior Design - worked with Nuclear Naval Lab with 3 other mechanical engineering students to design a robotic arm suitable to a hazardous environment that could support an end manipulator.
Skills: *SolidWorks, 3D Design, Design Research*

Household Projects
- **Wood Workbench** - (in progress) Designed and built a workshop bench for tablesaw outfeed and assembly, which will have retractable castors and T-tracks to be able to install table additions
- **Homemade Mini Solo Stove** - created reheat wood stove with a new paint can for camping
- **"Elephant latch"** - for top-loaded laundry machine door propping with cam-action release

Skills: *Fusion 360, Material Processing & Selection, FDM 3D Printing*

Other Skills - MATLAB, C++. VBA Macros, R, Breadboard Design, SMAW/Stick welding, UiPath