

# Mark McAleer

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## SUMMARY

Mechatronics Engineering graduate with experience in CAD, computer and PLC programming, electro-mechanical project management, additive and CNC manufacturing, with the ability to collaborate across departments, work in team environments, and contribute to large-scale projects. Interested in an engineering internship for summer of 2026.

## EDUCATION

University of Pittsburgh, Pittsburgh PA

December 2026

*Master of Science in Mechanical Engineering* (GPA 3.56)

PennWest California, California PA

May 2025

*Bachelor of Science in Mechatronics Engineering* (GPA 3.91)

## RELEVANT EXPERIENCE

Nucor Steel Marion, Marion OH

### *Process Engineering Intern*

- Worked within the rolling mill on many assigned projects related to mechanical design, and safety
- Assisted with preventative maintenance duties alongside mill workers during down days
- Utilized Autodesk Inventor, and AutoCAD, to develop drawings of proposed solutions for assigned projects, and minor projects assigned by Process Engineers
- Presented a final presentation which went over all projects completed, and in progress at time of internship completion

Westinghouse Electric Company, Cranberry PA

### *Mechanical Engineering Intern*

- Collaborated with principal engineers, projects managers, and other interns to ensure proper I&C cabinet development and delivery to site of current Westinghouse projects
- Utilized Microsoft Office Excel and Project to develop bill of materials for many different I&C cabinets to be manufactured, based on Westinghouse engineering drawings, and demand
- Developed multi-year cabinet delivery schedule to project site based on manufacturing lead time, overseas delivery time, and vendor development
- Created comprehensive list of all current, past, and developing vendors complete with all relevant information previously not available in database

## LEADERSHIP EXPERIENCE/COMMUNITY ENGAGEMENT

- Materials Advantage Membership
- AIST Pittsburgh Region Scholarship Award Recipient
- Applied Engineering & Technology Excellence Award
- National Eagle Scout Association
- PennWest California student equipment manager
- PennWest California marching and concert bands

## SKILLS

- Autodesk Inventor, Fusion, AutoCAD Electrical • SolidWorks, Ansys/Synopsis Workbench, Mechanical, Mechanical APDL, SpaceClaim • Microsoft Office • Bambu Studio • Visual Studio Code • PLCs Allen Bradley, Siemens, Productivity, Mitsubishi, 3D printing using various models, and Automatic Material Systems using varied filaments.

## ADDITIONAL EXPERIENCE

**Martial Artist:** 1st Degree Black Belt Rank

**Fluid Power Challenge:** Earned 1st Place design and performance in development of fluid power system.

**Odyssey of the Mind** State finalist in Engineering Problem 2.

### **Eagle Scout Project**

Spring 2021

- Created truck bed water pressure vessel out of empty sanitizer container to supply water pressure to power washer to strip and repaint 4 Collier Township Panhandle trail pavilions with help from troop

### **Auntie Anne's – Assistant Manager**

Summers 2019-2023

- Prepared store for daily operation, assigned payroll duties, fixed frequent plumbing and electrical issues