

Brock Pettay

bpettay@me.com

(330) 827-2200 – Dover, OH

EDUCATION

The University of Akron — Akron, Ohio

Aug 2020 – May 2026

Bachelor of Science in Mechanical Engineering

Dean's List: Fall 2020, Spring 2025, Fall 2025

SKILLS

Engineering Software: MATLAB, SolidWorks, PTC Creo, Autodesk Inventor

Analysis Tools: ANSYS Workbench (academic use), ANSYS Granta (academic use)

Controls & Testing Tools: Studio 5000 (PLC), Bluehill Universal

Technical Skills: CAD modeling & drawing release, manufacturing process support, test data analysis, process troubleshooting, rapid prototyping (FDM/MSLA), Machine design and assembly

EXPERIENCE

Cooper Standard ISG — New Philadelphia, Ohio

Test Engineer (Full-Time)

May 2026 – Present

- Execute mechanical and material validation testing for rubber extrusion products
- Analyze test data to support product performance and manufacturing decisions
- Collaborate with R&D and production teams to troubleshoot performance issues

Research & Development Intern

Feb 2026 – June 2026

- Supported product development initiatives through material testing and evaluation
- Assisted in experimental setup, data collection, and analysis

Process Engineer Intern Jan 2023 – May 2023, Jan 2024 – May 2024, May 2025 – August 2025

- Supported high-volume rubber extrusion manufacturing operations
- Analyzed production data to assist with troubleshooting and process improvements
- Designed and fabricated custom equipment and tooling for industrial applications
- Performed electrical panel wiring and PLC programming in Studio 5000

Little Tikes — Hudson, Ohio

Product Development Engineering Intern

Aug 2024 – Jan 2025

- Supported product development for injection, blow, and rotational molding manufacturing processes
- Developed 3D CAD models and detailed drawings in Creo for prototype and production components
- Participated in design reviews focused on manufacturability, assembly, and cost considerations

LEADERSHIP:

Kappa Sigma Fraternity — Pi Rho Chapter

Spring 2020 – 2026

- Directed structured new member development and onboarding programs
- Managed chapter communications, social media branding, and public relations initiatives