

Mark P. Armour

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Objective

To bring engineering experience from classwork and self-motivated projects to a professional environment through an internship or job during the summer of 2021.

Education

Grove City College, Grove City, PA – Expected Graduation: May 2023.

Mechanical Engineering Major, Robotics Minor

Classes:

Statics, Dynamics, Material Science, Solid Modeling, Engineering Drawings, Machine Shop. Physics 1 & 2, Thermodynamics, Design for Manufacturing.

Experience

Internship at Komatsu Mining Machinery, Technical Training Department June 2020 – August 2020

- Integrated mining machinery part information and eLearning material into an interactive 360 Degree walkaround of a machine. Completed as a 2-person internship project, focused on eliminating the need for large bulky part catalogs. The prototype integration me and my partner compiled could allow for much faster repairs to Komatsu’s continuous miners. (Continuous miner downtime can cost up to \$10k/hr.)

Job Shadowing at Komatsu Mining Machinery, Technical Training Department. June 2019

- Assisted in a project to reformat Russian translated eLearning for their mining machinery. While Job-shadowing, I was still given a project that needed minimal guidance, with the goal of familiarity of typical engineering-field office work. I successfully eliminated all the formatting bugs in a 15-lesson, Russian translation of mining machinery training material.

Lead CAD Designer, Grove City Area Homeschoolers B.E.S.T robotics team. August 2017 – February 2019

- I designed several parts in SolidWorks as components on the robot, and foresaw the creation of professional engineering drawings, and the fabrication of the robot using the engineering drawings.

Labor Assistant (Clintonville, PA) May 2017 – August 2019

- Job experience in maintaining and developing a family heritage cottage in the woods, included work with various equipment and power tools, and as an excavator assistant. Landscape Design, Bridge and trail Building. I worked over multiple summers.

Skills

3D Design and 3D Printing:

- PTC Creo, Autodesk Fusion360, 3D printing, Personal 3D Printer owning and Operating.

Computer Coding:

- JavaScript, HTML, Github website hosting, basic Google Firebase’s database connection to a website.
 - Used to create <https://duckfather.pw> (A website with silly ducks, demonstrating basic website structure)

Media:

- GoPro, CenarioVR, Video Editor, Storyboards.
 - Used to make a 360 degree walkaround of an aluminum shop, found at <https://duckfather.pw/AAAluminum>

Additional Activities

2015 – 2018, Church Service Trip. – A yearly summer trip, Involving yardwork and general labor for residents in need.

2017 – 2019, Homeless ministry collection. – Organized a college move-out excess stuff collection and charity yard sale.

2019, Youth Group Assistant – Facilitating activities and discussions with high school students.

A [picture gallery of my projects](https://www.armourconstructive.com/mark) can be found at <https://www.armourconstructive.com/mark>, linked above.