

Gavin Block

907-795-3817 | gwhizak@gmail.com | Parkville, MD

EDUCATION

Cornell University

Bachelor of Science in Mechanical Engineering

Ithaca, NY

Aug. 2020 – May 2024

SKILLS

Technical Skills: AutoCAD, Revit, SolidWorks, Fusion360, Onshape, Ansys Mechanical, Fluent, Carrier HAP, Cost Estimation

Programming Languages: Python, MATLAB, C, C++

Interests: 3D Printing, Electrical Engineering, Baking, Guitar, Camping

EXPERIENCE

Mechanical Engineer

September 2024 – Present

EBL Engineers, LLC

Parkville, MD

- Managed technical aspects of over 20 mechanical engineering building design projects for commercial and government clients, from initial conceptual studies through the preparation of construction documents using AutoCAD and Revit.
- Collaborated with clients to develop scope, perform code analysis, generate engineering calculations, and prepare detailed mechanical system designs
- Supported construction and bidding phases by reviewing submittals, responding to RFIs (Requests for Information), conducting field visits, and ensuring quality control across all project stages

Mechanical Engineering Intern

May 2023 – August 2023

CRW Engineering Group

Anchorage, AK

- Produced accurate and detailed record drawings for completed infrastructure and development projects using AutoCAD and Revit.
- Conducted over 15 site inspections for projects throughout Alaska, ensuring compliance with design specifications and standards
- Performed construction administration duties, including responding to RFIs and reviewing submittals for quality assurance and specification compliance.
- Strengthened technical expertise by participating in targeted training programs and shadowing senior engineering professionals.

Mechanical Engineering Intern

May 2022 – March 2023

Headwaters Solutions

Ithaca, NY

- Designed and implemented a high-pressure compressor cooling water system for an operational hydrogen production facility in Petersburg, VA, enhancing system reliability and overall performance.
- Modeled various mechanical and piping systems using SolidWorks to support design and manufacturing processes.
- Analyzed over 1,000 supplier quotes to develop accurate cost estimate models, incorporating adjustments for inflation and supply chain disruptions.

PROJECTS

Cornell Rocketry Team | <https://www.cornellrocketryteam.com>

October 2020 – June 2024

Ithaca, NY

- Led the design and fabrication of critical rocket subsystems, including motor mounts and fins, as Structures Sub-team Lead.
- Coordinated manufacturing processes and integration efforts to ensure alignment with overall rocket design requirements.
- Contributed to the team's first-place finish at the 2023 Spaceport America Cup through effective technical leadership and collaboration.
- Oversaw subsystem development from concept through final assembly, maintaining rigorous performance and safety standards.