

Evan Shebel

12123 Mt. Albert Rd.

Ellicott City MD 21042

443-852-4470

<https://ews6.github.io/portfolio/index.html>

ewshebel@gmail.com

OBJECTIVE

To obtain a challenging full time position in a high quality engineering environment where my mechanical design, innovative ideas, and ability to learn quickly will make me a valuable employee for the organization.

EDUCATION

University of Maryland, Baltimore County

Baltimore, Md

Bachelors of Science in Mechanical Engineering ABET

2015

Bachelors of Science in Mathematics

Expected Dec. 2017

Certifications/Classes: Earlbeck Gases and Technologies 40-hour class on the fundamentals of GMAW, GTAW, SMAW, and oxy-fuel welding.

Parametric Modeling: *Proficient with SolidWorks and Inventor. Experience with Pro/Engineer and ASME Y14.5.*

Programming: *Proficient with Matlab, Python, LabView, Arduino, HTML*

Office: *Proficient with Microsoft Word, Excel, and PowerPoint*

Machining: *Basic experience using manual Mill and Lathe.*

WORK AND UNDERGRADUATE/ INDEPENDENT PROJECTS

Sand Helper, LLC

Clarksville, Md

Contract Mechanical Engineer

2017- Present

- Participate in the design of electrically powered beach mobility wheelchairs.
- Create fabrication drawings to assist in the production of the beach wheelchairs.
- Seek and establish ways to increase efficiencies in the manufacturing process while reducing waste.

UPS

Burtonsville, Md

Package Sorter- part time

2016- 2017

- Manually sorted small-sized packages.
- Assisted on pre-load where packages were sorted before being placed into the trucks for final delivery.

Novel Motorcycle Design for Battery Electric Powertrain

Ellicott City, Md

Shebel, Evan. 2016. Electric Motorcycle Frame U.S. Patent Application 62/351,276

Filed June 16, 2016

- Designed a motorcycle frame specifically for the constraints of a battery electric vehicle.
- Submitted a provisional utility patent for the design. More information is available in the projects section of my website above.

UAV Prototype

Jessup, Md

UAV Solutions

2015

- Worked among a five person team to redesign a quad rotor frame UAV for UAV Solutions. Achieved an increase in portability by having the frame fold to a volume small enough to fit into a police cruiser's trunk.
- Used lightweight materials such as carbon fiber to increase mission time to 30 minutes with a camera payload.
- Utilized management and organizational tools such as a system boundary diagram, system requirements specification, conceptual design review, production schedule, Gantt chart, and bill of materials throughout the design and build phases.

Arduino Controls Project

Baltimore, Md

2015

- Used an Arduino as a way to compare an open and closed loop control system. The project incorporated a throttle (potentiometer), H-Bridge Stepper Motor Driver, DC brushed motor, planetary gear set, and eccentric mass (magnet).
- The 5V potentiometer was mapped to a motor with an unknown rpm range. The speed of the motor and magnet were determined by sampling data from a fixed hall-effect sensor. The project was run through Lab-View to collect the data.

Hobbies: Drawing, CAD modeling, teaching myself CAM, FEA. Riding/ Racing motorcycles. Trail Running,