

Evan Shebel

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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.

WORK AND UNDERGRADUATE/ INDEPENDENT PROJECTS

UPS – part time

Burtonsville, Md

2016- Present

- Took a part time job for their education assistance to pursue an additional Bachelor of Science degree in Mathematics. I am expected to earn the degree in December 2017 should I not get a full time job before such time.

Novel Motorcycle Design for Battery Electric

Ellicott City, Md

Powertrain

2016

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. I then submitted a provisional utility patent for the design. More information is available in the projects section of my website [here](#).

UAV Prototype

Jessup, Md

UAV Solutions

2015

- Worked among a five person team to redesign a quad rotor frame UAV for UAV Solutions. Aimed to achieve 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 flight time; with the goal of 60 minutes of mission time.
- 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

- Controls Lab project used the Arduino as a way to implement a control system. The project involved a throttle (potentiometer), H-Bridge Stepper Motor Driver, DC brushed motor, planetary gear set, and eccentric mass (magnet) that determined speed by sampling data from a fixed hall-effect sensor. The project was run through LabView to collect the data.
- The objective of the project was to map a 5V potentiometer to a motor with an unknown rpm range. The speed of the motor would be determined by reading the signal of the hall-effect sensor.

Lanscaping

Self-Employed

Ellicott City, Md

2011– 2012, 2014

- Independently operated a small reliable lawn care business for several years.
- Cared for lawns ranging from 2-6 acres and did all of the maintenance and repairs on the power equipment.
- Sought out and kept customers long term. Managed all of the logistics and financials of the business.

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, Inventor, ASME Y14.5*

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

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

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

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