

Evan Shebel

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Education

University of Maryland Baltimore Maryland, Baltimore County, ABET Accredited

Expected B.S. Mathematics, **December, 2017** (GPA: 3.31)

Graduate B.S. Mechanical Engineering, 2015 (GPA: 3.09)

Academic and Technical Skills

- ❖ Robust feature and surface modeling experience with SolidWorks and Inventor
- ❖ ASME Y14.5
- ❖ Experienced with Matlab, Python
- ❖ Proficient in Microsoft Word, Excel, and PowerPoint
- ❖ Experience with basic machine shop tools
- ❖ Completed an *Earlbeck Gases and Technologies* 40-hour class on the fundamentals of GMAW, GTAW, SMAW, and oxy-fuel welding

Patent

Shebel, Evan. 2016. *Electric Motorcycle Frame* U.S Patent Application 62/351,276, filed June 16, 2016. Patent Pending.

Brief summary of the specification

- ❖ Designed a motorcycle frame designed specifically for the constraints of a battery electric vehicle.
- ❖ The frame disposes an inclined, longitudinally distributed, battery assembly to facilitate pilot maneuverability, to attain a sufficient lean angle, to possess preferable handling characteristics, and to feature a preferable wheelbase dimension.
- ❖ The frame introduces features new to the field of battery electric motorcycles that further improve upon the motorcycle's handling, permit the engineering of mechanical compliance, or flex, and reduce the motorcycle's effective frontal area.

Process, searching, research in the field, why design

Relevant Academic Experience

Capstone

- ❖ 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, and conceptual design review, production schedule, Gantt chart, and bill of materials throughout the design and build phases.

Global Engineering

- ❖ Worked among a five person team including UMBC students and various students from Portugal to research, compose, and present multiple entrepreneurial aid projects for 3rd world countries with an engineering focus.
- ❖ Presented to an audience of both UMBC and FUEP students and faculty.

Work Experience

Seashore Ace Hardware

Sales Associate, Register, Stocking, Deliveries

Stone Harbor NJ

June – Aug. 2013

Landscaping

Self-employed

Ellicott City MD

June – Aug. 2011-2012, 2014

UPS – Part time

Burtonsville MD

November 2016- Current