john moreland

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education

olin college of engineering | expected: 2019
b.s. engineering: robotics
recipient of 4-year, 50% olin merit scholarship
coursework: software design, design nature, modeling + simulation, coastal navigation

experience

boosted boards | 2016
intern: product development
Developed ultra portable electric vehicles. Designed and prototyped new products targeted at urban commuters.

simplehuman | 2014 - 2015
intern: research and development
Designed household products that improve daily tasks. Created initial electromechanical prototypes for emerging product lines.

rolling robots | 2013 - 2015
mentor
Kickstarted three robotics teams for Rolling Robots and mentored middle school students through their first competition seasons.

projects

engineering design + development | 2014 - 2015
project manager
Led a team of 19 students through a year-long robotics challenge. Created a volcano exploration device, along with industry standard systems performance specification, proof of concept, technical data package, and trade show booth.

egg decorator | 2016
robotics engineering
Created a miniature 3-axis CNC machine capable of drawing vector shapes onto eggs. Fabricated using laser cutting and 3d printing. Full project at poe.olin.edu/2016/Eggs

folding kayak - passion project | 2016
marine design
Designed and fabricated a folding kayak with $50 worth of corrugated plastic, blue tarp, scrap wood, and duct tape.

play project | 2015
experience design
Collaborated with 4 other students to design a turtle-themed play experience for fourth grade students. We fabricated “shell backpacks” and designed bio-inspired games for the kids.

design

- solidworks
- photoshop
- illustrator

prototyping

- CNC and manual mill
- CNC router
- 3d printer
- laser cutter
- circuit design

code

- python
- arduino
- matlab
- html + css