

john moreland

education

olin college of engineering | expected: 2019
b.s. engineering: **robotics**

experience

cafe x | present

intern: **mechanical engineering**

First in-house mechanical engineer. Designing and testing future iterations of the robotic cafe and peripherals.

boosted boards | 2016

intern: **mechanical engineering/ product development**

Developed ultra portable electric vehicles. Designed and proto-typed 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 using only 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.



johnmoreland.io



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design

solidworks

photoshop

illustrator

prototyping

manual mill

CNC mill

CNC router

3D printer

laser cutter

circuit design

soldering

fillet brazing

code

python

arduino

matlab

html + css