

LINDSEY ANDRADE

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PROFESSIONAL EXPERIENCE

MARKFORGED

Mechanical Engineering Intern

Cambridge, MA

Summer 2016

- Worked extensively with Markforged carbon fiber 3D printers
- Designed diagnostic test prints for customer use
- Ran testing for mechanical properties of material and printer components
- Tested new products and performed quality control

OLIN MACHINE SHOP

Assistant Instructor

Needham, MA

January 2015 - Present

- Teach and mentor students one on one
- Guide manufacturing design decisions on student projects
- Produce and modify shop trainings and educational videos

MAKEOSITY - ENGEN PROJECT

Mechanical Designer

Boston, MA

Summer 2015

- Lead mechanical designer
- Designed a mechanical system to generate electricity from kick scooters
- 3D modeling in Fusion 360 and Solidworks, design calculations in MATLAB
- Produced four 3D printed prototypes and iterations
- Patent pending

RESEARCH AT OLIN COLLEGE

Biomedical CAD Researcher

Needham, MA

Summer 2014

- Co-designed prostate stand-in to test radiation treatments with Boston Medical Center doctors
- Developed process to turn CT and MRI scans into 3D models to 3D print
- Produced six iterations to test at Boston Medical Center

PROJECTS

BAJA SAE

Fall 2013 - Present

- Current Design and Fabrication Manager
- Oversees entire design and fabrication of the Baja car
- Works largely in Solidworks and uses Solidworks FEA and flow simulation packages
- Manages team PDM
- Chassis design lead from June 2014 to May 2015
 - Lead design and FEA testing on the chassis

DESKTOP TESLA TURBINE

Fall 2015

- Advanced machining project to create high precision desktop-sized Tesla Turbine
- Extensive use of CNC and manual mill and manual lathe

24 HOURS OF LeMONs

Fall 2016 - Spring 2016

- Team of six Olin students currently fixing a 1988 Mercedes 300e
- Plan to compete in a 24 Hours of LeMONs race
 - A parody of the 24 Hours of Le Mans race where total cost of car/repairs must not exceed \$500

EDUCATION

OLIN COLLEGE OF ENGINEERING

BS in Mechanical Engineering

Needham, MA

Graduating May 2017

- Half tuition merit scholarship. GPA 3.31

SKILLS

Software Solidworks, Fusion 360, MATLAB, AutoCAD, Arduino C, LaTeX

Fabrication CNC and Manual Mill, Manual Lathe, Laser Cutter, 3D Printer, Composite Layups