

Lila Smith

Email
lsmith2@olin.edu

Hardware
KiCAD
SolidWorks
CANalyzer
Fusion 360 CAM
Onshape

Software
Python
MATLAB
Git
C++
ROS
Ruby

Machining
CNC
3D-printing
Pick-and-place
Laser cutting
Band saw

Education

Olin College of Engineering — Needham, MA

B.S. in Electrical and Computer Engineering

Awards: Olin Half-Tuition Merit Scholarship

Relevant Courses: Principles of Integrated Engineering;
Machine Learning; Software Design; Introduction to Sensors,
Instrumentation, and Measurement; Modeling and Simulation

May 2024

Technical Experience

Oshkosh Corporation

Electrification Engineering Intern

Summer
2021

- Oshkosh Electrification Team designs hybrid/electric trucks
- Informed FEAD (Front End Accessory Drive) belt design through torque and serpentine belt datasheet calculations
- Automated datalogger downloads, reducing work time needed to receive CSVs by 75%
- Developed CAN J1939 architecture and DBC files for battery-electric prototype vehicle
- Standardized wiring for charging inlets on plug-in vehicles
- Communicated with suppliers to evaluate team's potential purchases and receive technical help

Olin Baja SAE Team

Electrical Lead

Sep. 2020 to
present

- Baja SAE is a college-level competition where students design, fabricate, build, and race an offroad vehicle
- Designed microcontroller PCBs for Hall effect and ride height sensors that communicate via CAN Bus
- Developed embedded C++ code to record Hall effect sensor and ride height sensor input for data collection
- Redesigned file system with standardized components and version control using Git for Electrical Subteam

Aragon FIRST Robotics Competition Team

Mentor

Jun. 2019 to
Jun. 2020

- Aragon Robotics was a new team of 30+ high schoolers
- Instructed over 20 students on CADing in Onshape
- Taught students CAM software, CNC operation, and safety
- Helped students with design process and validating moving 3D geometry in 2D sketches

Other Experience

Starbucks

Barista

Jun. 2018 to
Mar. 2020

- Handled transactions and made drinks for customers
- Repaired various machines, from dishwasher to espresso