

# Lila Smith

## Email

lsmith2@olin.edu

## Portfolio

lila.engineer

## 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

May 2024

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

## Technical Experience

### Oshkosh Corporation

Summer

Electrification Engineering Intern

2021

- Oshkosh Electrification Team designs hybrid/electric trucks as part of the Global Product Development department
- 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

Sept 2020 to  
present

Electrical Lead

- 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

June 2019 to  
June 2020

Mentor

- 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
- Facilitated design process and validating moving 3D geometry in 2D sketches

## Other Experience

### Starbucks

June 2018 to  
March 2020

Barista

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