

# Giselle Koo

gisellekg@gmail.com | Farmington, CT | 860 438 9286 | gisellekg.github.io

## Education

### Tunxis Community College

Major: Engineering Science

GPA: 3.9

Anticipated Graduation:

Spring 2018

## Awards

**WiCHacks 2017:** "[Light Code](#)" won

Best UI by New Relic, Best

Hardware Hack by Liberty Mutual,

MLH Office Gallery

**OSHA 2017:** Selected as one of

10 [Ada Fellows](#) for Open Source

Hardware Summit 2017

**Society of Manufacturing**

**Engineering:** Recipient of the

2017-2018 E. Wayne Kay

Community College Scholarship

## Skills

**Electronics:** Soldering, Eagle PCB

design, Wearable Electronics

**Programming:** Git, JavaScript,

HTML/CSS, C++, Arduino, Java,

LabVIEW

## Work Experience

### Computer Lab Assistant, Silas Deane Middle School

Wethersfield CT | Aug '14-Jul '16

- Supervised the computer lab throughout the day.
- Kept inventory of and coordinate use of electronic devices and accessories.
- Provided tech support for staff and students.
- Ran professional development workshop on Google products.

### Team Member, Jo-Ann Fabric & Craft Stores

Newington CT | Apr '17 - present

- Customer service, cashier, & cutting counter duties

## Extracurriculars & Volunteer Experience

### FIRST Robotics Competition (FRC) Team #178

Farmington, CT | September 2009 - present

- Serves as mentor for high school students. Help develop technical and management skills through HS robotics challenge.
- Held several leadership positions including Team Captain in 2013.
- Focus on electrical/programming, web design, project management, rapid prototyping, esp. Inspiring and supporting female members.

### Let's Build Rockets Inc.

Farmington CT | January 2015 - present

- Assisted in establishment of non-profit.
- Contributes to open-source rocketry data acquisition and visualization tools with node.js and Processing.
- Supervise high school volunteer interns in projects including rocketry payload electronics dev, PCB kit design, and website database design.
- Exhibited at World Maker Faire NY and CT Science Center Robotics Day.

### CT IEEE Robotics and Automation Society

West Hartford CT | July 2014 - present

- Volunteer technical mentor for various middle school STEM programs
- Beta tester for HS Zero Robotics competition alongside MIT SPHERES team

## Projects

### RCPR - Let's Build Rockets Inc.

February 2016 - present

- Design a roboRIO-compatible prototyping robot for FRC teams
- Design schematics and PCB for motors, LEDs, and power management using Autodesk EAGLE software

### Website - Let's Build Rockets Inc.

September 2016 - present

- Work on back- and front-end development of new website using Jekyll static site generator and GitHub pages.
- Manage contributions of less experienced web designer and developer.

### Sign In Service - Silas Deane Middle School

October 2014 - July 2016

- Developed server- and cloud-based tools to keep track of when students check in and out of non-classroom areas such as the computer labs, library, and administrative and counseling offices.

### Trinity Fire Fighting Robot Competition

December 2016 - present

- Design and build autonomous robot to navigate a maze and locate and extinguish a candle in shortest period of time
- Utilize Robot Operating System (ROS), SLAM algorithm using LIDAR data, OpenCV image processing and IR sensor to locate candle flame
- Awarded Outstanding Robots in Connecticut award by IEEE CT