Giselle Koo

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Education

Tunxis Community College
Major: Engineering Science
GPA: 4.0
Anticipated Graduation:
Spring 2018

Farmington High School
Graduated: June 2013

Skills

Electronics: Soldering, Eagle PCB design, Wearable Electronics/soft circuits

Programming: Git, JavaScript, HTML/CSS, C++, Arduino, Java, LabVIEW

Software: MS Office suite, GIMP/Photoshop, Google Apps

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.

Freelance Jewelry Assembler, Criscara
Tolland CT | Jan '17 - present
- Assemble jewelry for small local company
- Work quickly with very small components

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.
- Participated in IEEE STEM outreach events for pre-teens.
- Exhibited at World Maker Faire NY and CT Science Center Robotics Day.

Raptor Care Volunteer, Roaring Brook Nature Center
Canton CT | January 2017 - present
- Trained to feed and clean enclosures of resident birds
- Assist trained staff in medical assessment and treatment of rehab birds.

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

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