Header

-Home

-About, Resume, Skills, Projects, Hobbies, Social Media

Copyright/Footer

-social media/website icons

- email, linkedin, github, instagram

-copyright c symbol 2017 Connie Lim.

**Main**

Welcome Image

-angel.jpg

-Connie Lim

-Aspiring embedded software developer, amateur kpop dance coverer, ISFP, adventurous

About

-standing\_pose.jpg

-Hi! I’m Connie and I am a student at Virginia Tech majoring in Computer Engineering. After I become an alumnus in December 2017, I hope to contribute to society by working with microcontrollers and sensors. I’ve lived near Chinatown, LA for half of my life until I moved to Roanoke, VA where I am deprived of Asian food. I love learning KPop dances and eating.

Resume/Experiences

-little intro

-objective of becoming an embedded software developer. Maybe a little bit about my work personality.

-education

Virginia Tech

B.S. in Computer Engineering

Expected Graduation: December 2017

-relevant work experience

LifeFuels, Summer Software Developer Intern

May-August 2015:

May-June 2016:

-resume link

Skills

-C, C++, Java, Python, MatLab, Git,

Projects

-lifefuels website

-lifefuels lentil writer

-embedded project

-grabber.jpg

-senior design project

-senior\_design.jpg

Hobbies/Passions

-dancing

-Korea

-traveling

**LifeFuels Projects**

Website

For the summer after my sophomore year, I interned at LifeFuels. During my internship, I developed a couple of pages for the company. I first helped develop the team page for the pre-order site.

Lentil

**Embedded Project**

ECE 4534 – Embedded Systems Design

Problem

ECE 4534 is a capstone class that all computer engineers are required to take. It utilizes the student’s knowledge that has been obtained through classes take sophomore and junior years. In addition to a project, reports, presentations, and design documentation are to be produced. Only a handful of lectures are given and they are about how to get modules to communicate with each other and communication protocols. Other than that, the students in teams of four use their knowledge to code and design the modules with the help of GTAs and the professor.

The goal of the project assigned is to pick up all the unknown number of targets inside an unknown arena and drop them outside without bumping into obstacles or a rover. The project only allows two rovers; one that maps the arena and location of targets and obstacles and the other that is blind whose job is to pick up and drop targets. The four modules are sensor, grabber, pathfinding, and retriever; I was responsible for the grabber module.

The grabber’s task is to pick up the target and drop them when the rover is outside. The grabber module is part of the blind rover that works with the retriever module. The retriever module will move toward the targets based on the map generated by other rover that has the pathfinding and sensor modules. The grabber is disabled until the retriever says that it’s near a target. Due to friction and inaccuracy of the output compare, the position of the rover is different from where it thinks it is. The grabber can have sensors to align itself with the target because of that. After the grabber acquires the target, it is again disabled until the retriever module tells the grabber module that it’s outside the arena.

Solution

grabber.jpg

Check out our solution explained in the video and report below! My part in the video is from 9:26-14:17.

<https://www.youtube.com/watch?v=SH4gUvmH9Hc>

<https://docs.google.com/document/d/1dRLzuv_-AmKCYL8DUuBjY9-71j91lN_ida7YEVxVf9Q/edit?usp=sharing>

**Senior Design**

ECE 4805/4806 – Senior Design Project

The senior design class gives students the opportunity to gain real world experience by allowing students to work with projects given by real companies in teams. It simulates a workplace in the sense that we have a customer, subject matter expert, and an advisor. This is a two-semester course where the first semester is dedicated to designing and the second to implementing. Topics of some of the lectures include patent, RFP, and the process of getting a customer.

The project that was assigned to our team of four is a GE Global project. GE wanted us to create library modules that can be pieced together; the three modules to be created are PID, PWM, and bang-bang controller. The module I was responsible for was the bang-bang controller.

Solution

Check out our poster!

<https://drive.google.com/file/d/0B_zXH23zO7DnTm85WHI4M2c2LURJNkVrVWVwWkxDMWJXSzI4/view?usp=sharing>

**Dancing**

dance\_fan.jpg

dance\_jump.jpg

**Korea**

Yonsei\_main\_gate.jpg

**Traveling**