Project Descriptions

1. COM S 309 Group Project: Android Chess Application

In this group project we learned many new skills related to source control, project management and teamwork skills. For example, many of the group member had little to no experience with using GIT in previous courses or job experiences. As a result, we learned together the benefits and drawbacks of using a tool like GIT. This project consisted of creating a server backend to connect to the android app we created. In this case, our backend was written in Java using the Spring Framework and Spring Web Framework. This allowed for us to create a set of simple API endpoints for the android application to connect to. For the android application we used Java and the built-in features of the Android SDK. Our design process followed a simplified agile structure, where we used a tool called Trello to log the tasks each group member was working on for a given week. Finally, I acquired a better understanding of Android Development and source control tools.

2. CPR E Group Project: Mars Rover

In this group project, our team worked together to create code to control a modified Roomba robot to navigate a course with various sized objects. This Roomba was used to navigate a scale Mars surface and understand the types of obstacles and terrain. From this project, I have learned more teamwork related skills and a better understanding of time-management to get everything completed by the due date. This project required us to have accurate object tracking with both IR sensors and Sonar sensors. We used a combination of C, Verilog and Machine Code to program the robot.

3. Personal Project: My Old and Current Portfolio Websites

This has been an ongoing project since my Junior year of High School. I started with a simple static website, with basic pages related to education and job experience. As I progressed thru college, I realized I wanted a more interactive website, and a place to host all my random tinkering and ideas. With this in mind, I embarked on a version 2.0 of my website. This goal was completed by creating a new web application based in the ReactJS Framework and uses some cool features of Azure Web Services to serve a static version of my Single Page Application. For this project I used the following technologies: HTML, CSS, JavaScript, JSON, ReactJS, NodeJS, Azure Web Services, GitHub, Azure DevOps.