

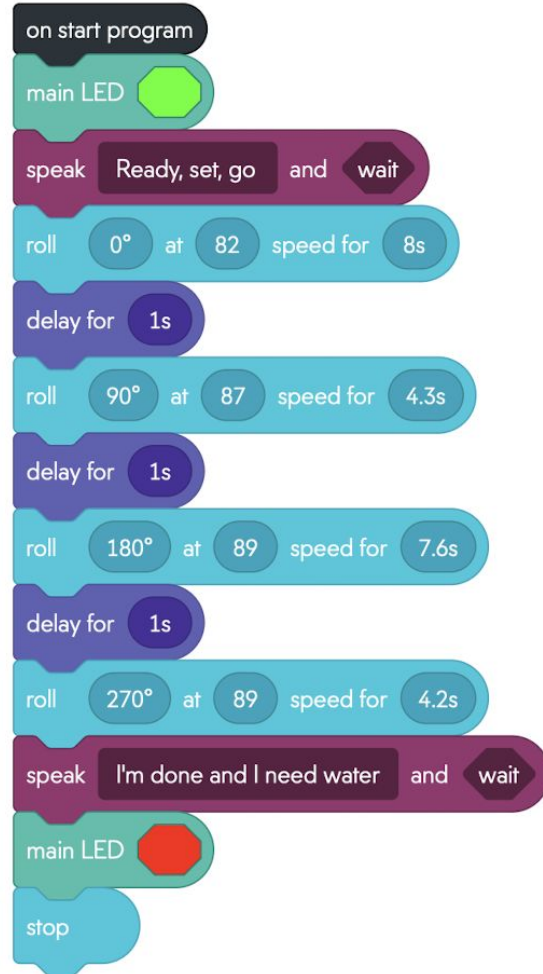
Robot Project

Gaby, Bailey, Angela
CS 104-01



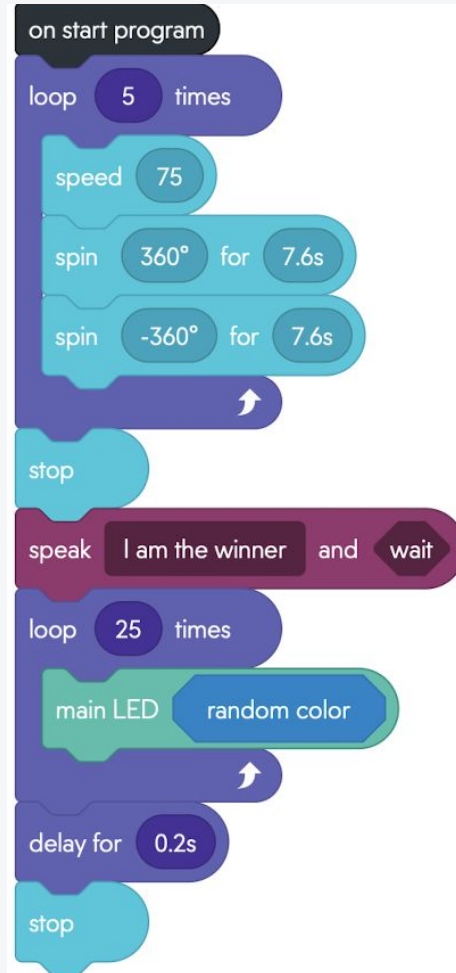
Sprint I: Endurance

Block Code



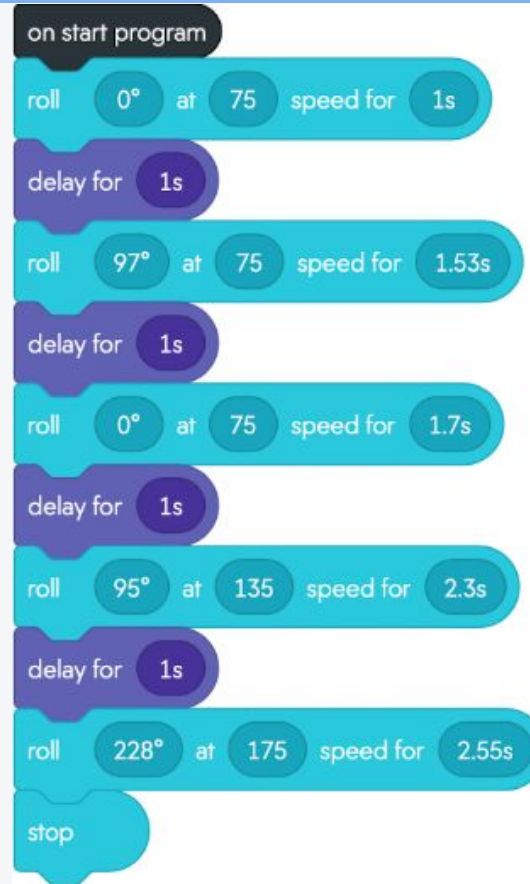
Sprint 2: Accuracy

Block Code

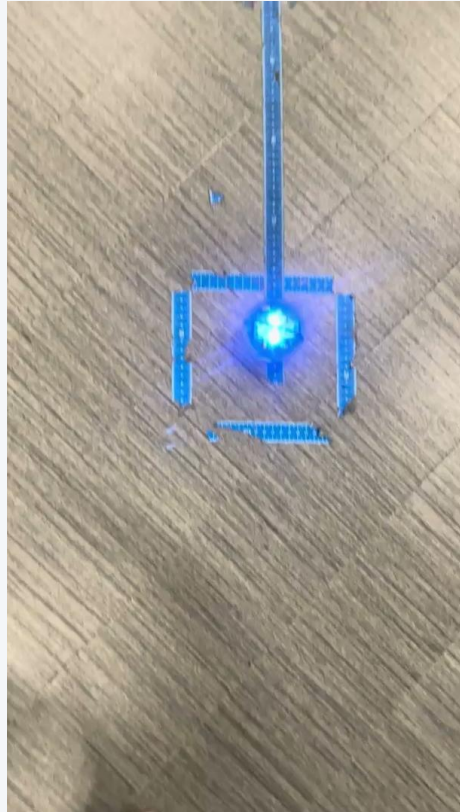


Sprint 3: Agility

Block Code



Sprint 3: Agility Video



Roles of Each Team Member

Angela: Finalized edits on SDD (Gantt Charts (1,2) Requirements Table/Recording output of the Test Plan). Developed algorithm for Sprint 2 and 3 & Wrote Block code for Sprint 1 and 3. Conducted testing and videographed the robot's performance for Sprint 3.

Bailey: Made edits on SDD Endurance. Github owner for all Sprints. Conducted testing and videographed the robot's performance for Sprint 1. Conducted testing and edited Block code for Sprint 3.

Gaby: Made edits on SSD, Built requirements Table 1,2 and Gantt Chart 3, Conducted testing and videographed the robot's performance for Sprint 2, Conducted Testing and edited Block Code for sprint 3

Challenges throughout the project

- **Robot Not Following Code:** Overcoming issues where the robot did not execute the programmed code as expected.
- **Robot Connectivity Problems:** Establishing and maintaining connections between the robot and various devices.
- **Room Availability:** Considering room HH208's class schedules to find enough time to run the code and take videos during the available slots
- **Meeting Scheduling:** Coordinating meetings that accommodated all team members' availability and commitments.



Key Software Engineering Takeaways

A background illustration featuring a stylized person with dark hair and a purple shirt sitting at a light brown desk. On the desk are a laptop, a pair of glasses, and a small green plant. The background is decorated with various icons: a blue cloud with three white dots, an orange gear, a red pie chart, and a blue line graph.

- **Problem Solving:** Complex problem-solving in robotics and triathlon tasks.
- **Requirements Gathering:** Documenting project requirements and understanding goals.
- **Design Principles:** Creating design documents and using algorithms.
- **Project Management:** Organizing tasks, Gantt charts, and sprint-based milestones.
- **Coding Skills:** Developing code aligned with design and best practices.
- **Collaboration:** Teamwork in code development and documentation.
- **Presentation Skills:** Preparing and delivering project presentations.
- **Real-world Application:** Applying software engineering principles practically.

What would we do differently?

- Implement stricter time management practices to meet project milestones and deadlines
- Meeting earlier because getting angles, speeds, and timing for the robot was tedious
- Perfected some of the numbers to allow the robot to be even more accurate on the courses



Thank you!