

Roles

Endurance

Anjali: Manager

SDD, GitHub, robot video, robot testing

James: Planning

algorithm, flowchart, robot testing

Jarek: Lead Programmer

block code, Gantt chart, robot testing

Accuracy

Anjali: Lead Programmer

 SDD, block code, robot video, robot testing

James: Planning

algorithm, flowchart, robot testing

Jarek: Manager

 GitHub, Gantt chart, robot testing

Agility

Anjali: Manager

 SDD, robot video, robot testing

James: Planning

 algorithm, flowchart, robot testing

Jarek: Lead Programmer

 block code, GitHub, Gantt chart, robot testing

Workflow

- Had one person do most of block code each time
- All participated in testing and suggesting edits in block code
- Helped each other with roles in general but had a main person responsible for each role

Challenges

- Time
 - Individual time constraints
 - HH208 not always open
 - sometimes crowded while open
- Accuracy
 - Getting robot correctly oriented before testing
 - Problems with this = more time spent redoing tests
 - Determining angles and movement duration
 - Getting robot to stay on / at least close to blue lines
 - (especially with Accuracy sprint)



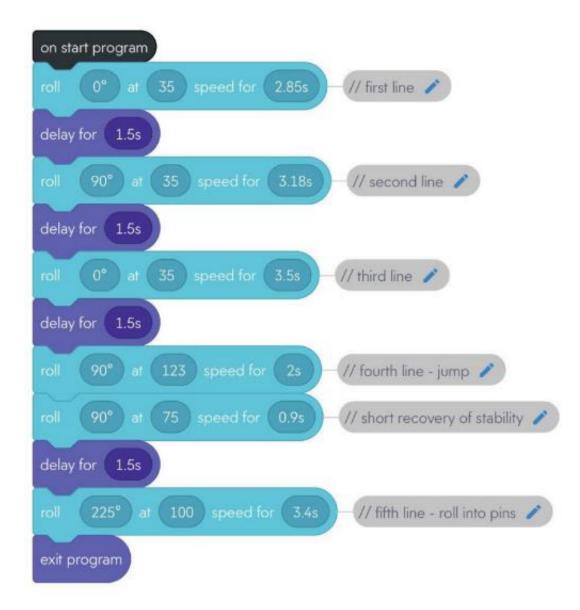
What we learned about software engineering

- Takes lots of collaboration to get work done in time
 - Work done more quickly when all of us could meet up / communicate in real time
- Communication is important
 - Texting about meet up times, asking questions (each other and professor), sending each other material for GitHub and SDD
- Have to sometimes accept imperfect results
 - Could not always stay exactly on lines
 - Sometimes imperfect results still got the job done

What we would have done differently

- Could have made more time for testing
 - One or two members could have met up while not all available
 - (we started doing this more towards the end)
- Develop strategy for keeping track of orientation
 - Possibly could have used protractor to make sure robot's light matches up with certain degree while fixing orientation
 - Would reduce excessive testing due to orientation errors
- Write down test cases directly after tests
 - Usually wrote them after all the tests for that day, relying on memory
- Figure out app completely before using
 - Had various mishaps with both iPhone and Windows applications that occasionally made progress difficult

Agility Sprint Block Code



Agility Sprint Video

