Goals for enhanced prototype:

Connect to bluetooth

Start robot

Stop robot

Move robot backward

Turn robot 90 degrees

Turn robot variable number of degrees

Make robot move in arc (forward, back, left, right)

Read and send telemetry data

Send messages in correct form

Decode messages correctly

Goals for evolutionary prototype:

Move forward

Move backward

Turn until you let go

Stop

Milestones

Team accepts design document

Team accepts goals for end-to-end prototype

Team accepts milestones for end-to-end prototype

Team accepts schedule for end-to-end prototype

Team submits evolutionary prototype code (implementation for GUI, moveStraight, turn, stop, creating connection, encoding and decoding messages,

Complete initial tests with partner team

Team signs inspection for final evolutionary prototype code

Complete final tests with partner team

Team accepts final prototype code

Schedule: Create Gantt Chart

Milestone: Team accepts design

Write goals (Friday, Mar 22) (everyone)

Milestone: Team accepts goals for end-to-end prototype

Write milestones (Friday, Mar 22) Laura - completed

Milestone: Team accepts milestones for prototype

Create schedule (Friday, Mar 22) Laura

Milestone: Team accepts schedule

Write code for moving forward, backward, stopping, and turning (Friday, Mar 22 - Friday, Apr 5)

Milestone: team inspects submitted code for test

Meet with partner team (Sunday, Mar 24) everyone

Run Tests (move forward, move backward, turn, stop) everyone

Milestone: Complete initial test with partner team

Document results of Test (Sunday, Mar 24)

Fix code/debug

Milestone: Team inspects final prototype code

Meet with partner team (Friday, Mar 29)

Run Final Tests (move forward, move backward, turn, stop)

Milestone: Complete final tests with partner team

Document results of Test (Friday, Mar 29)

Milestone: Team accepts final prototype code

Goal for end-to-end prototype:

Send messages via Bluetooth using communication protocol

Basic movements – move forward, backward, continuous turn, stop

Milestones:

Establish connection between base station and robot

Send message from robot to base station

Receive message on robot from base station

Move robot forward

Move robot backward

Turn robot

Stop robot

Friday:

Test 1 - simple motion (move forward, backward, turn set distance on click)

Test 2 - advanced motion (move forward, backward, turn continuously on key press, stop when released)

Sunday/next week:

Test 3 - sensors (read sensors, send sensor data, display sensor data)

Test 4 - set speed