Feature: Capability to Control Speed

* Two buttons capable of increasing or decreasing the speed at preset intervals

Feature: Capability to Control Direction

* Direction is controlled by two keyboard keys that turn the robot at the set speed

Feature: Ability to Display Data from Sensors

* Displays to show current settings of each sensor
* Data log screen to display data acquired by each sensor

Feature: Ability to Determine Approximate Location

* Data log of changes in speed, direction, and movement to track and determine location
* A mini-map that will track where the robot has been and display its location relative to its path

Feature: Capability to Run Autonomously

* Can create a combination of movement instructions and follow them
* Can follow lines automatically
* Can move autonomously based on built in specifications through autopilot

Communications Protocol Requirements

* Ability to communicate a general set of commands and data to/from the control system to/from the robot system.
* • Ability to deal with data errors that might occur in the transmission of commands.