ELEC1601

Group 34

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# Introduction

The purpose of this project was to design and create a prototype that involves the use of two Arduino Uno boards and a robot connected with sensors and actuators with the ability for bi directional communication via Bluetooth shields.

**Description**

Our final prototype is based off the functionality of a Roomba (Robot vacuum) and a Rover used for space exploration. The prototype will be able to navigate to its surroundings without the need for user intervention with the ability to also display obstacles and the path it has taken to reach its current position over a web interface via Serial and Bluetooth communication.

**Final Representation**

CMAPTool Diagram

**Implementation**

**Project Management**

**Task Division**

**Progress**

**Flow Chart Representation of code**

**Pseudo-code.**

**Description of the final prototype**

**Conclusion**

**References**

[**http://mars.nasa.gov/msl/multimedia/interactives/learncuriosity/index-2.html**](http://mars.nasa.gov/msl/multimedia/interactives/learncuriosity/index-2.html)

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