ECEN 361 Project Definition

<rOOM-mAPPING/ mAZE sOLVING rOBOT>  
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# Project Scope

*The project will be a robot on wheels. It will be able to map/see its surroundings to navigate rooms/mazes. Applications could include: rumba, self-driving cars, and military applications.*

# Lessons to Learn

*The team will learn about ultrasonic sensors, motors, and how to code an Arduino.*

# Roles and Responsibilities

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| Role | Name | Responsibilities |
| Team Leader | Trevor | * Set up project in Monday.com and invite team * Manage project tasks in Monday.com * Submits group assignments * Establishes meeting schedule (1-2 times per week) |
| Hardware Lead | Adam | * Final decision maker on hardware selection * Hardware block diagram owner * Gathers necessary hardware (purchase or loan) |
| Software Lead | Elizabeth | * Final decision maker on software architecture * Software block diagram owner * Set up Git repository and share with team |
| Additional Team Member | Justin | * TBD |

# Schedule

*Create initial set of tasks in Monday.com and assign a person and dates and durations. Export main table to Excel and Gantt chart to PDF and turn in with this sheet.*

# Derived Requirements

*List the requirements for your project. Derived requirements are typically broken down into three categories: general, interface, and functional.*

## General Requirements

*Small, less than 10 pounds, and general coding standards.*

## Interface Requirements

*TBD*

## Functional Requirements

*Drive, have a wireless power system, be controlled wirelessly, and process visual data (stretch goal).*

# Hardware Block Diagram

*TBD*

# Software Block Diagram

*TBD*