**Milestone 4 Report**

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# Introduction

# System level design: Overview of design concepts and justification for choices.

# ELECTRICAL DESIGN

## Power calculations and Power supply design and schematics (including safety)

## Microcontroller resource allocation

## Design and Schematics of circuits with Vero/PCB layout

# Motion control design, implementation, and results Include

## Pseudocode functions

## UML or flow diagrams of code or MATLAB Simulink layout

## Results and justifications

# Line sensing design, implementation, and results Include

## Pseudocode functions

## 

## UML or flow diagrams of code or MATLAB Simulink layout

## Results and justifications

# Treasure Maze solving algorithm design, implementation, and results

## The modular design of software down to function calls and including interrupt / real-time structure

## UML diagrams (flow diagram of code)

## Pseudocode functions

# Conclusion