

How to Design a Maze-Runner Robots

Lezgin Alimoğlu

I. INTRODUCTION

In the field of engineering, there are various fields for applying robotic technology. Almost all advanced robotics applications come from basic concepts. In this guide, we will take a look at a simple concept, the maze-solver robot. There are three sections. In the first part, we will examine the electronics of the maze-solver. After that, we will build a robot body. As a final part, we will consider an algorithm for solving the maze.

II. ELECTRONICS

In this section, we will make a circuit that allows us to control our robots and have a high optimization for application. Before choosing appropriate components, we constructed a simple block diagram. As you see in Figure 1, these are essential parts of our circuit.

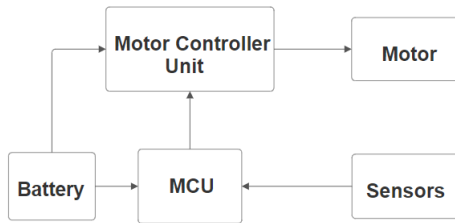


Fig. 1: Circuit Block Diagram

We will start with

III. MECHANICS

IV. SOFTWARE