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Mian contribution: Hardware

A clear report showing my contribution to the group project

Group Project 3 2022

Individual report

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# Abstract – This report is based on a group project of selecting and configuring motor and processor, designing a circuit, writing code, and discussing its feasibility.

The part of this report in group project is to discuss the feasibility of the motor and processor, using the result to choose the motor and integrated into the maze. For processor, it needs to choose the model, designing the circuits and writing the code. Also, when the image processing finished, it needs to use the same port that the processor provided.

# Introduction

|  |  |
| --- | --- |
| Table1: Users component in Arduino mega | |
| NAME | NUMBER |
| Button | 4 |
| Switch | 1 |
| LCD screen | 1 |
| GYRO | 1 |
| Full colour LED | 1 |

In the hardware part, it uses two servo motors to drive the maze by connecting to Arduino mega. when the system turn on, Arduino will do a self-check to make sure every component is connected and working well. Table(1)shows its component for users.

After self-check, user can choose two type of modes which is auto mode and manual mode. In auto mode, it also include auto trim, connect to the pc, and degree.