MEDICAL DESIGN

FINAL PROJECT REPORT

Project title

|  |  |
| --- | --- |
| Instructor: | Dr. Tran Le Giang |
| TA1: |  |
| TA2: |  |

Name: Member 1 ID 1

Member 2 ID 2

Member 3 ID 3

Member 4 ID 4

Semester:

# Introduction

## Problem/Issue/Motivation

## Objective + Initial requirements

Briefly explain what you want to do

Objective and initial requirements are extremely crucial in the report that proves your critical thinking when making engineering decisions for your design. These matrices are used to evaluate a student outcome of ABET “5A. Develop a plan and establish goals to work on a project, coordinate among team members”, so you must do it properly.

## Related Works

Search for related works and describe some of the related works that you found

## Idea introduction

Describe your idea, how you plan to build, test, and deploy it…

# Design specifications

Design specifications are extremely crucial in the report that proves your ability in calculating the performance of a device. These matrices are used to evaluate a student outcome of ABET “5A. Develop a plan and establish goals to work on a project, coordinate among team members”, so you have to do it properly.

## Weight

## Size

## Power

Power line or battery, if it is battery, what is the expected battery life, is it chargeable or not?..

## Detection Range/Working Distance…

## Accuracy/Reliability

## etc...

# Materials & Methods

## Materials

List of sensors, Arduino board, LCD, ... You shall use, where you plan to purchase them

## Block diagram

Your plan to connect the components

## Electrical Wiring/Schematics

## Mechanical Design

Fusion 3D assembly of your device

## Firmware & Software

# Testing Methodology

Describe how you determined the weight, size, detection range/working distance, accuracy or reliability, and battery life (if it is powered by battery)...of your device after you finish building it.

# Results & Discussions

# Cost analysis

# Conclusion & Limitation & Future works

## Conclusion

## Limitation

## Future work

# Task Division and Timeline

The task division and timeline are critical parameters to evaluate the ability of students in planning a project and managing workflow. These matrices are used to evaluate a student outcome of ABET “5A. Develop a plan and establish goals to work on a project, coordinate among team members”, so you have to do it properly.

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Task | Person in charge | Timeline |
| 1 |  |  |  |
| 2 |  |  |  |

You can use the above table to describe your task division and timeline or you can make a gantt chart (using Excel is ok). The point is that in this part, you have a list of tasks, who is in charge of which tasks, and timeline to implement those tasks

# References

List source of information that you use/refer here. References should be numbered and cited properly in the text.