

# EE445M Lab 6 Report

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## 1 Objective

The goal of this lab is to prepare for the final Robot race. In this lab we will interface various components, including Ping)))) ultrasonic distance sensor, IR distance sensor, and DC motor. A layered communication system using CAN protocol will transmit the information between two microcontrollers. We will design and implement a software communication protocol to transmit the sensor data and other things.

In this lab we will also form a team of 4 or 5, which requires us also to apply communication skills to function as a team.

## 2 Hardware Design

## 3 Software Design

## 4 Measurement

## 5 Analysis

## 6 Post-Mortem Team Evaluation