## **Homework 5 – Teleop Commands**

Submitted in partial fulfillment of the requirements for the course of

## **ENPM809T – Autonomous Robotics**

Ву

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## **INTRODUCTION**

The aim of this project is to use complete the mechanical and electrical assembly of the ground vehicle. Then, a script is written to control the motors and implement movement of the vehicles. We also create a script to run at bootup of the pi to prevent the mobile robot from activating any of its motors.

### **APPROACH**

We first assemble the ground vehicle as instructed. Then a python class is created to control the motors, finally another script is written which automatically runs at bootup of the pi to stop the motors from running using SYSTEMD

### **CODE AND OUTPUT VIDEO**

The entire repository containing the problem statement and the data can be viewed on <a href="https://github.com/adheeshc/raspi-teleop">https://github.com/adheeshc/raspi-teleop</a>

The YouTube output video can also be viewed on <a href="https://www.youtube.com/watch?v=2oXz5tk5Fzk">https://www.youtube.com/watch?v=2oXz5tk5Fzk</a>

### **RESULTS**

The time-domain signals are sketched below

