Report

1 Stage 1: Conceptualisation 1

2 Stage 2: Initial assembly and tests 1

2.1 Component specifications 1

2.2 Assembly and shakedown tests 1

2.3 Connection/wiring/hardware issues 1

2.4 Lack of negative feedback 1

3 Stage 3: Adding wheel encoders for negative feedback control 1

3.1 Wheel encoder specifications 2

3.2 Encoder shakedown tests 2

3.3 Electromagnetic Interference 2

3.4 Proportion-Integration-Differentiation (PID) Controlling 2

# 1 Stage 1: Conceptualisation

(Write about how the project came up, what things we decided to buy and why)

# 2 Stage 2: Initial assembly and tests

test if motors work individually/one by one 🡪 test 4 motors collectively 🡪 issues

## 2.1 Component specifications

## 2.2 Assembly and shakedown tests

## 2.3 Connection/wiring/hardware issues

## 2.4 Lack of negative feedback

# 3 Stage 3: Adding wheel encoders for negative feedback control

## 3.1 Wheel encoder specifications

## 3.2 Encoder shakedown tests

## 3.3 Electromagnetic Interference

## 3.4 Proportion-Integration-Differentiation (PID) Controlling