

# TI Competition

Adam Leach, Edward Sainsbury, Kaiwen Lin, Oliver Groeling, Usmaan Javed

January 28, 2015

## Contents

<b>1</b>	<b>CAN Protocol</b>	<b>1</b>
<b>2</b>	<b>Driver Controls</b>	<b>1</b>
<b>3</b>	<b>Motor Communication</b>	<b>1</b>
<b>4</b>	<b>Dashboard and Main Controller</b>	<b>1</b>
<b>5</b>	<b>Telemetry</b>	<b>1</b>

## 1 CAN Protocol

[BRIEF DESCRIPTION OF CAN AND WHY ITS BEING USED]  
[PRETTY SCHEMATIC/BLOCK DIAGRAM TO DO WITH CAN]  
[EXPLANATION OF PRETTY PICTURE AND VERY BRIEF SUMMARY]

## 2 Driver Controls

[INDICATORS AND BRAKE LIGHTS WIRING DIAGRAM]  
[BLOCK DIAGRAM OF INDICATING/BRAKING(LIGHTS ONLY) PROCESS]  
[EXPLAIN PICTURES DETAIL CONTROL MECHANISMS]

## 3 Motor Communication

[DIAGRAM SHOWING THE COMMUNICATION TO THE MOTOR CONTROLLER PROCESS]  
[EXPLANATION OF DIAGRAM]

## 4 Dashboard and Main Controller

[PICTURE OF FINAL DASHBOARD]  
[BRIEF DESCRIPTION OF HOW THE DRIVER CAN INTERFACE WITH IT]  
[BLOCK DIAGRAM/SCHEMATIC OF MAIN CONTROLLER/DASHBOARD]  
[EXPLANATION OF WHAT INPUTS THE MAIN CONTROLLER HANDLES AND WHAT OUTPUTS IT CONTROLS]  
[EXPLANATION OF SAFETY FEATURES AND REDUNDANCIES BUILT INTO THE SYSTEM]  
[VOLTAGE REGULATION INFO COULD GO HERE]

## 5 Telemetry

[WHY TELEMETRY IS IMPORTANT AND WHAT WE PLAN ON BEING ABLE TO RECORD]  
[DIAGRAM SHOWING HARDWARE USED AS WELL AS INTERACTIONS BETWEEN HARDWARE]

[FURTHER EXPLAINING THE DIAGRAM AND DESCRIBING THE POWER OF THE SYSTEM]