**BLDC Contest Design Report**

**Team:**

**Project:**

**Date Year Month day**

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# 1. Project content

## 1.1 Background and purpose

Text...

## 1.2 Project specifications

Text…., briefly explain main specifications

Table 1 Project specifications

|  |  |
| --- | --- |
| Items | Specifications |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# 2. Application system introduction

## 2.1 Description of system design and architecture

Text…, describe the design of system and architecture, more chapters could be added if necessary

# 3. Motor drive design

## 3.1 BLDC motor parameters

Text…, explain motor parameters

## 3.2 BLDC controller design

Text…, explain BLDC controller design/ flowchart/ circuit design… more chapters could be added if necessary

# 4. System performance evaluation

## 4.1 Test results of application

Text…, project application introduction, video of application operation and so on…

Table 2 Project Video and descriptions

|  |  |
| --- | --- |
| Video Link | Video Description |
|  |  |
|  |  |

## 4.2 Test waveform

Text..., explain project test platform/ test records and methods…, including technical judging items

## 4.3 Control card circuit diagram and parts list

Text..., if MEAN WELL provided motor drive is not used, please provide main circuit design and BOM

Table 3 Main component costs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Part# | Specification | Q’ty | Cost(NTD) | Note |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| **Total cost** | | |  |  |

Circuit diagram: