***CROW* – *V0.1***

***CROW***

V0.1说明书

版本号 V0.1

**2024年4月20**

**三月雨开发团队**

# 文档变更历史记录

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# **1.概述**

## 1.1 版本概述

该版本为crow 0.1(以下简称crow)，主要解决以下问题：

1. 购置相关配件
2. 通过树莓派控制无刷电机的旋转和调速

# **2. 项目的一般性描述**

## 2.1软件产品与其环境

硬件环境：主要包括无刷电机，电子调速器，树莓派，pico控制板，直流6s电源。

软件环境：raspberry linu，python3。

## 2.3假设与前提条件

在开发和使用CROW系统时，我们基于以下假设和前提：

* 用户具备基本的计算机操作和互联网使用能力。
* 用户拥有一定的编程能力。
* 用户具备基本的经济水平用于部署该系统。
* 用户具有一定的电子技术基础。

# **3. 系统功能需求描述**

## 3.1 系统功能概述

该系统通过树莓派gpio控制板对电子调速器进行控制，从而达到控制无刷电机旋转的目的。

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**风险可行性：**该版本总体风险较低，结合开发组当前的能力进行计算可知，风险可行性良好。

可行性研究结论：在进行严格的支出计算后，可以进行该版本的研发。

## 3.3 开发人员参考资料

## 3.3 经费支出记录：

树莓派：0￥

致盈 KV2500无刷电机 68￥

Lanrc 35A电调 2-6s 46￥

# 4.系统版本记录

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| 版本号 | 父版本号 | 立项日期 | 发布日期 | 更新内容 | 功能介绍 | 测试情况 | 已知问题 |
| V0.1 | Null | 20240420 | 未发布 |  |  |  |  |
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