

Contents

1	Introduction	2
2	Materials and Methods	3
2.1	Electronic hardware components	3
2.1.1	Control units	3
2.1.2	Sensors	3
2.1.3	Actors	3
2.2	Software architecture	3
2.2.1	Excuse: talking to control units using PlatformIO	3
2.2.2	Communication protocols	3
2.2.3	WebSockets	3
2.3	Mechanical parts	3
2.3.1	Material list	3
2.3.2	Dimensions	3
2.3.3	Height control	3
2.3.4	LittleFS	4

1 Introduction

2 Materials and Methods

2.1 Electronic hardware components

2.1.1 Control units

2.1.2 Sensors

2.1.3 Actors

2.2 Software architecture

Describe how system is structured

2.2.1 Excuse: talking to control units using PlatformIO

Toggle digital pins, read "analog"

2.2.2 Communication protocols

UART, Server-Client, JSON strings

2.2.3 WebSockets

2.3 Mechanical parts

2.3.1 Material list

2.3.2 Dimensions

2.3.3 Height control

2.3.4 LittleFS

Upload html, css, js files to ESP8266 (or any file) <https://randomnerdtutorials.com/esp8266-nodemcu-vs-code-platformio-littlefs/>