

## Report.pdf

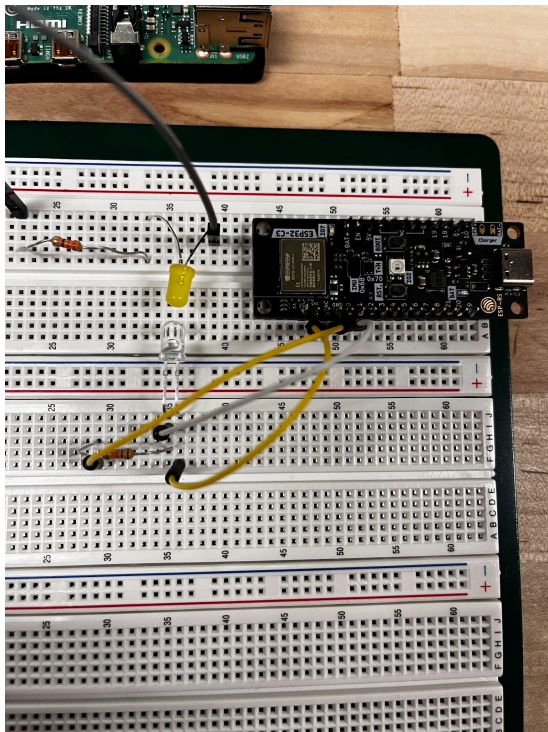
### 5.1

[chatgpt query for part 1](#)

### 5.2

[chatgpt query for part 2](#)

Image of esp and arduino setup for morse code communication



```
I (275) sleep: Configure to isolate all GPIO pins in sleep state
I (282) sleep: Enable automatic switching of GPIO sleep configuration
I (289) main_task: Started on CPU0
I (289) main_task: Calling app_main()
I (289) gpio: GPIO[0]| InputEn: 0| OutputEn: 0| OpenDrain: 0| Pullup: 0| Pulldown: 0| Intr:0
I (299) ADC: calibration scheme version is Curve Fitting
I (309) ADC: Calibration Success
I (18309) ADC: Encrypted message: .... .-... .-... --- / . ... .-... .-... ---
I (18309) ADC: Decrypted message: HELLO ESP32
I (25619) ADC: Encrypted message: .... .-... .-... --- / . ... .-... .-... ---
I (25619) ADC: Decrypted message: HELLO ESP32
I (32929) ADC: Encrypted message: .... .-... .-... --- / . ... .-... .-... ---
I (32929) ADC: Decrypted message: HELLO ESP32
I (40249) ADC: Encrypted message: .... .-... .-... --- / . ... .-... .-... ---
I (40249) ADC: Decrypted message: HELLO ESP32
```

### **5.3**

The morse code started to fail when at around 10 ms dot time. At this time, the dots were a little too quick to measure accurately and some of the letters in my message would be off by a dot.