

0.1 ADC

When programming the ability to use a ADC (Analog to digital converter) to read a analog value on the microprocessor is of crucial impotents. In our project the ADC is use for reading values from our infrared and load sensors. On the ESP32 a total of 18 ADC channels are available with a config resolution options of 9,10,11 and 12-bits.

0.1.1 Configuring

The library

```
1      adc_oneshot_unit_handle_t adc1_handle;
2      adc_oneshot_unit_init_cfg_t init_config1 = {
3          .unit_id = ADC_UNIT_1,
4          .ulp_mode = ADC_ULP_MODE_DISABLE,
5      };
6      ESP_ERROR_CHECK(adc_oneshot_new_unit(&init_config1, &adc1_handle));
7
```

0.1.2 Reading