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Lab 6
CSE 121 Spring 2023
Due 5/25/23

I did not use ChatGPT at all to complete this lab. I instead only referenced official
documentation and example code to complete the lab assignment.
Official ADC one-shot mode documentation:
https://docs.espressif.com/projects/esp-idf/en/latest/esp32c3/api-reference/peripherals/adc_one
shot.html?highlight=adc#_CPPv414adc_bitwidth_t
Official ADC example code:
https://github.com/espressif/esp-idf/blob/d00e7b5af897cc5fafe51fae19c57f0313b81edf/example
s/peripherals/adc/oneshot_read/main/oneshot_read_main.c
RUST dev board reference: https://github.com/esp-rs/esp-rust-board

My fastest character rate was around **8 char/sec** for accurate morse reading. It fails at around
10 char/sec.