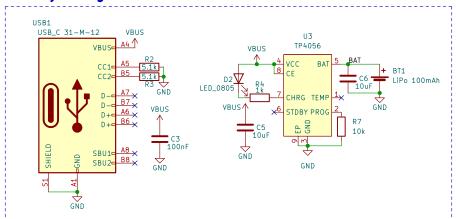
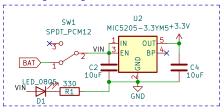
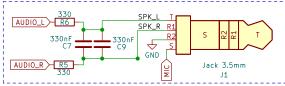
Battery charger



Voltage regulator

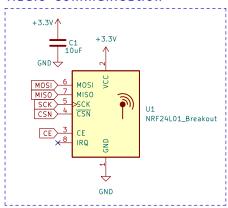


Audio output

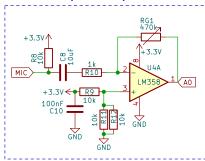


Mandatory low pass filter.
Using R=330 and C=330n sets cutoff frequency at 1.4kHz
Filters pwm high frequency and allows human voice frequencies

Radio communication

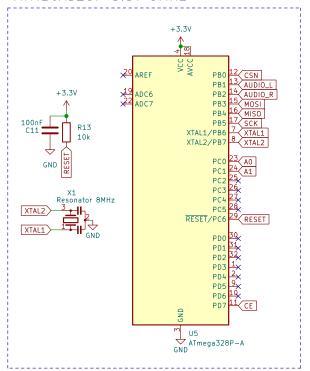


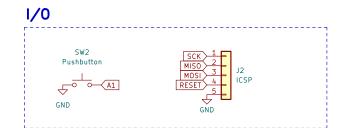
Audio imput amplifier



RG1 sets gain for microphone (Gain = RG1/1000) Typical gain for a headphone mic is 470 For capsule microphone values might be lower around 100

Microcontroller ATMEGA328P 3.3v 8MHz





Detective Boys walkie talkie v1.2 (21/06/2023)

File: DÉTECTIVE BOYS BADGE.kicad_sch Title:

Size: A4 Date: Rev: KiCad E.D.A. kicad (6.0.0) ld: 1/1