

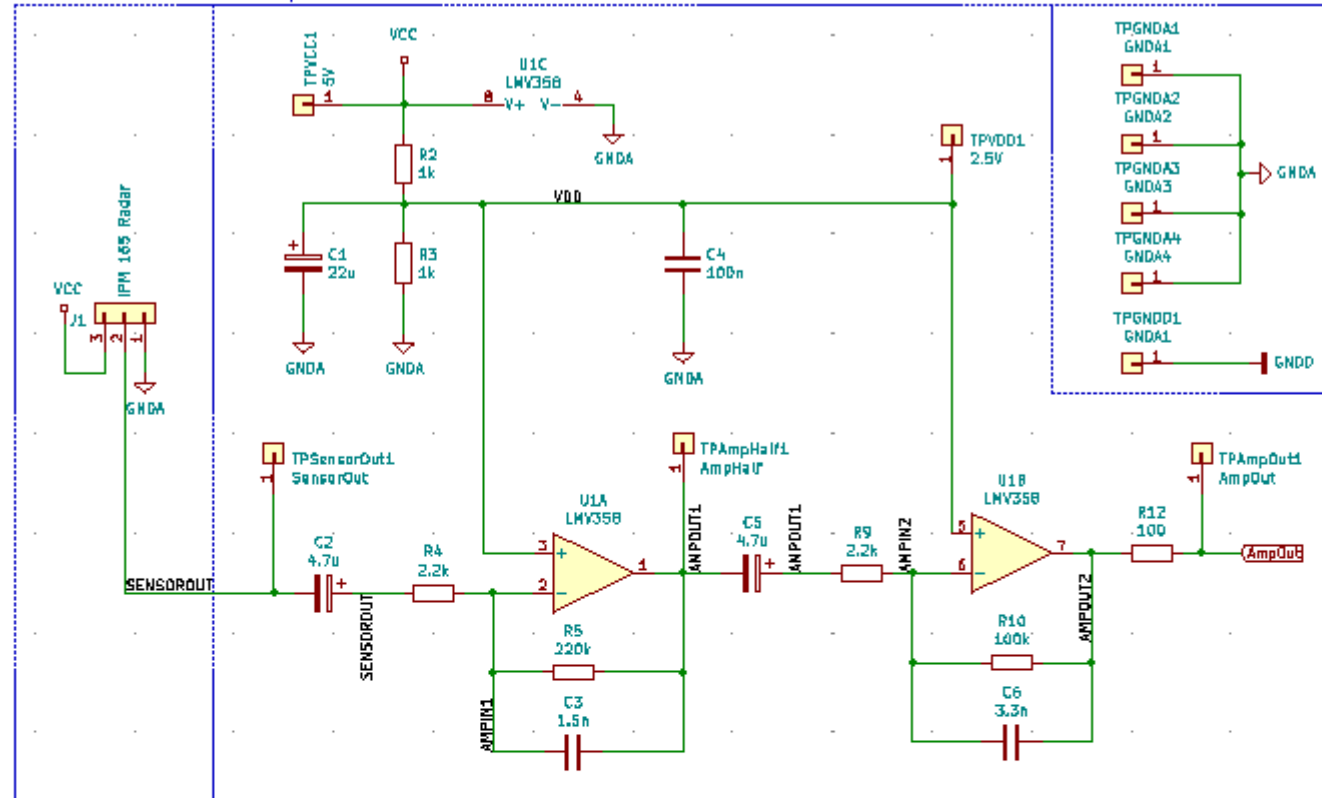


SYSTEM DRIVEN HARDWARE DESIGN - PCB ASSIGNMENT

OSCAR AGUILAR AGUILA ISAIAS

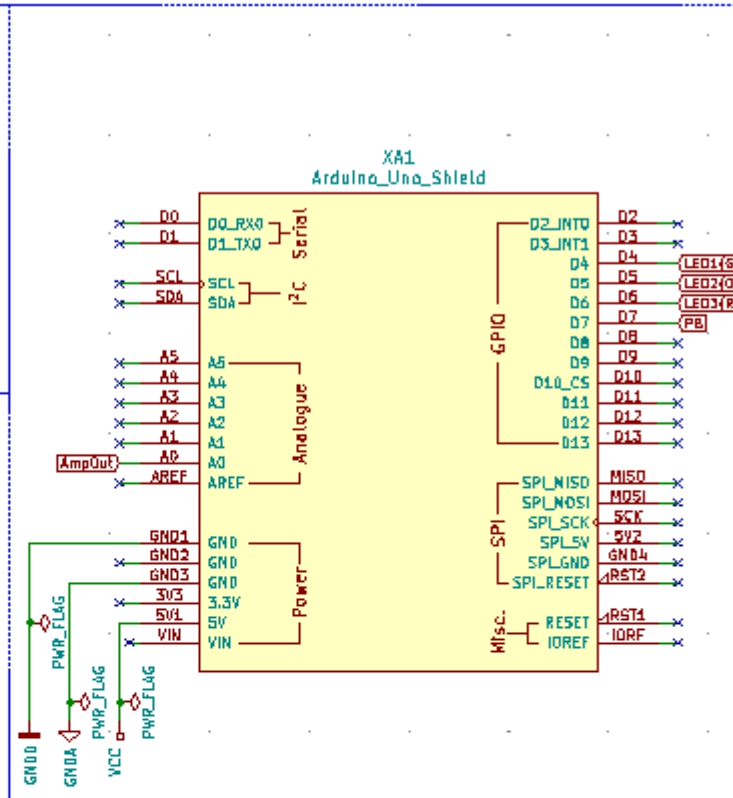
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Sensor Amplifier and Filter



Test GND

Arduino Shield

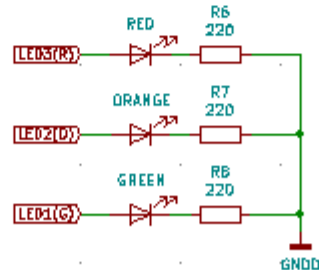


HMI

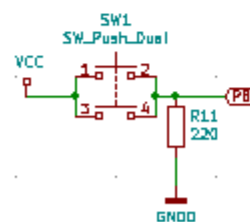
PWR Indicator



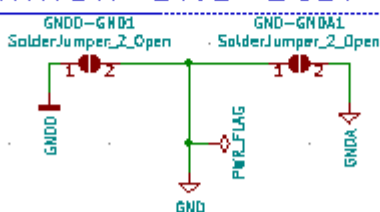
LEDs



Push Button



Common GND Star Point



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Ing. Oscar Agullar Agulla Isaías
Hochschule Darmstadt

Sheet: /
File: 3D_PCB.sch

Title: 24GHz-Radar for Movement Detection

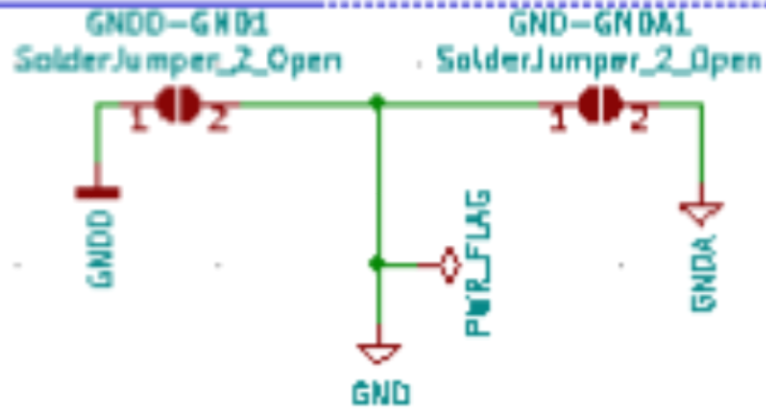
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KiCad E.D.A. kicad (5.1.5)-3

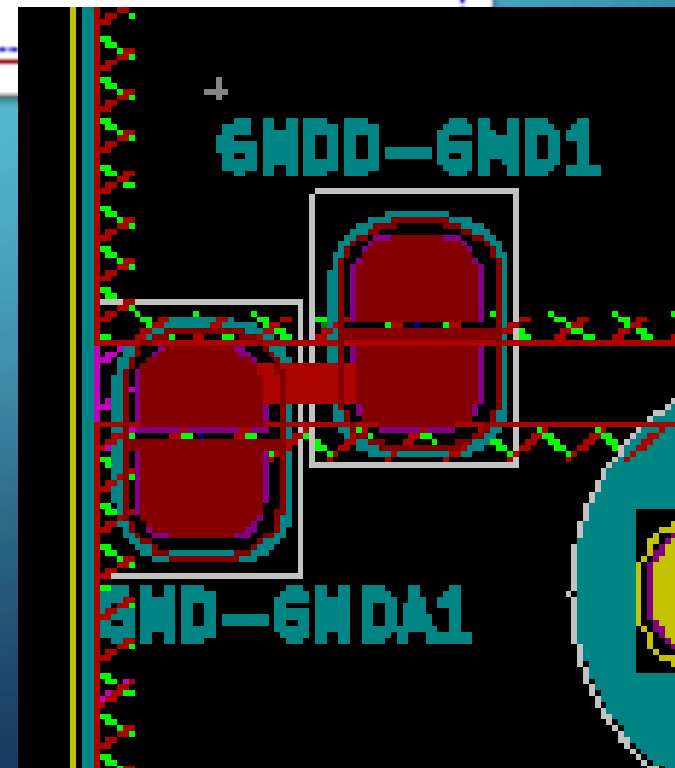
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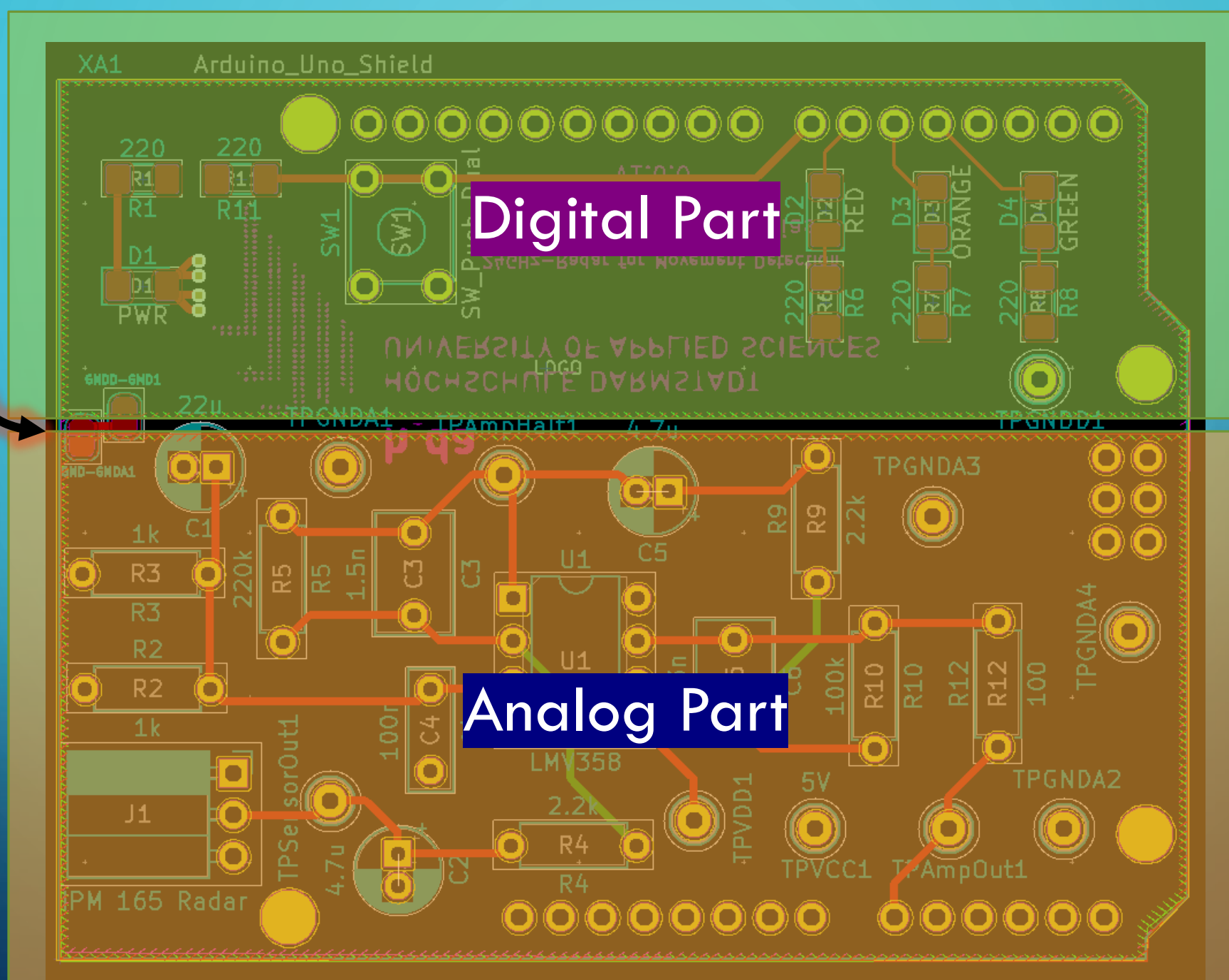
Common GND Star Point



CAN BE UNSOLDERED for root-cause analysis



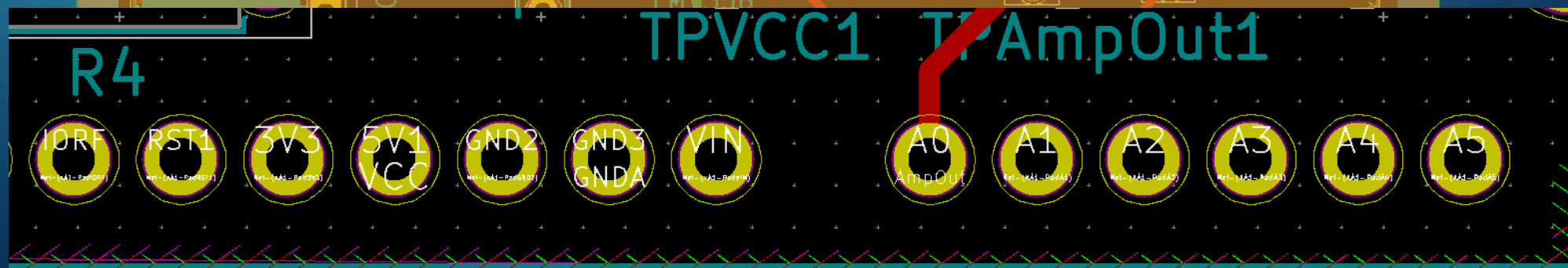
PCB LAYOUT

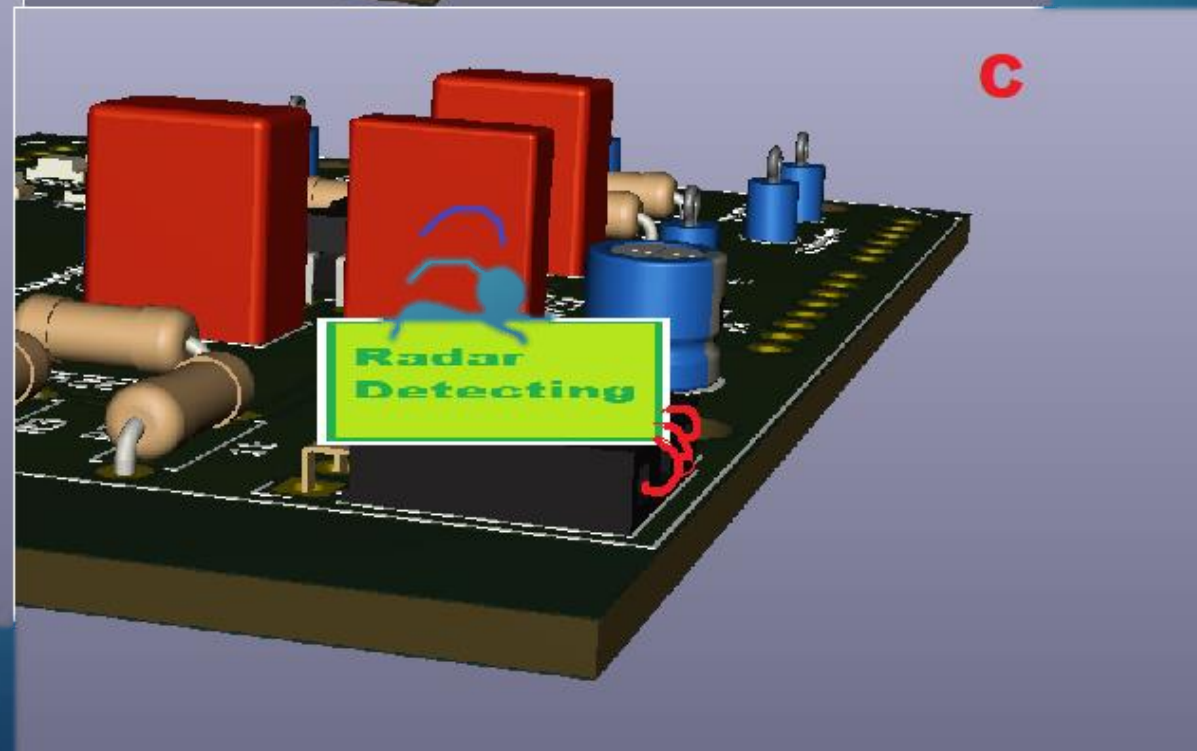
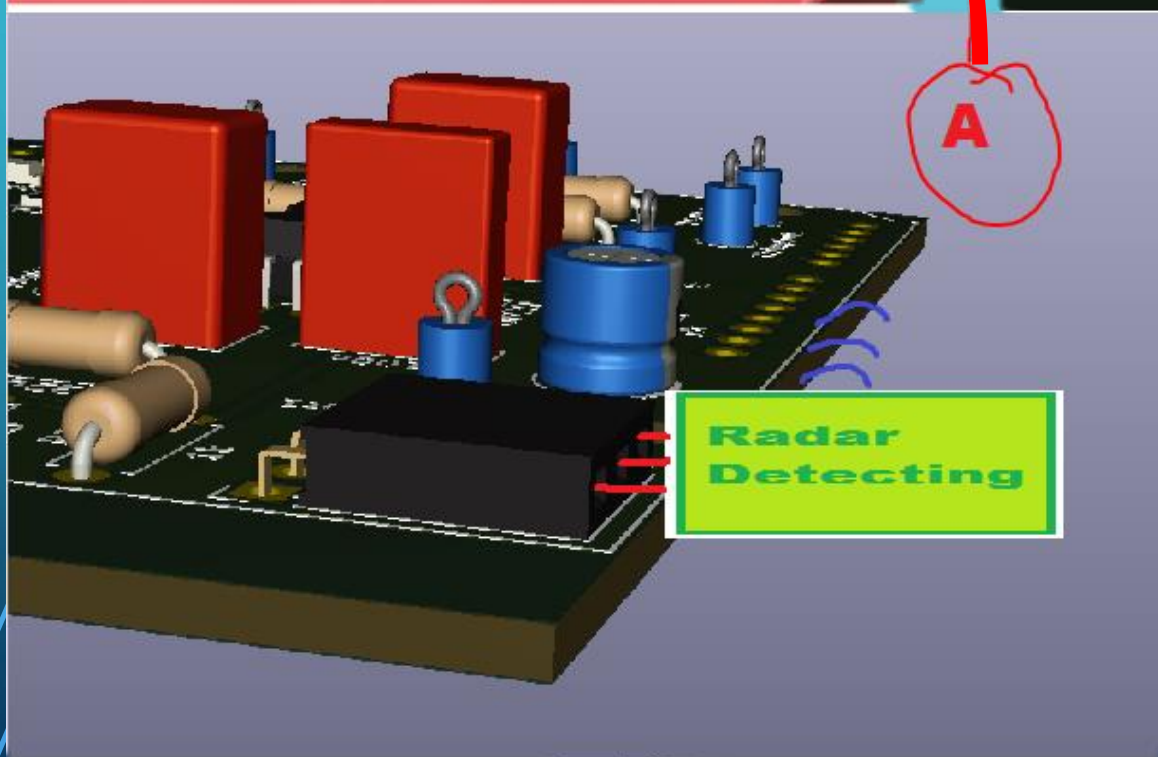
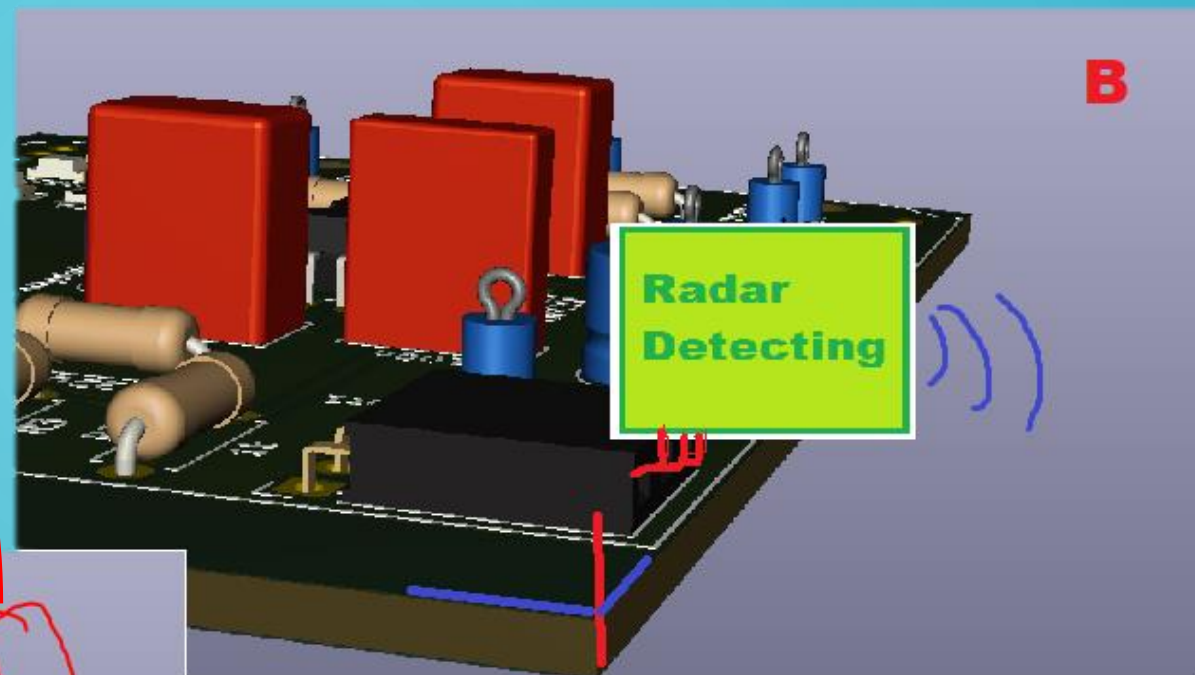
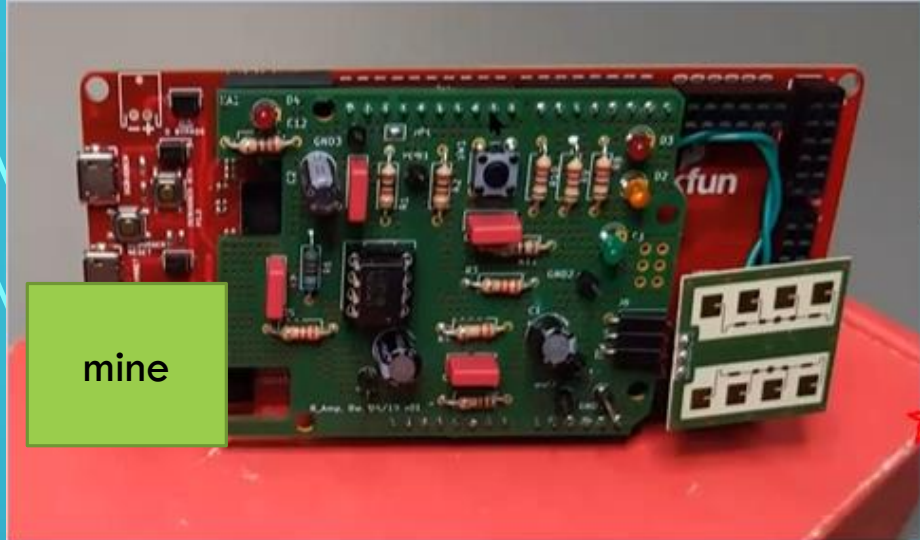


PCB LAYOUT

Digital Part

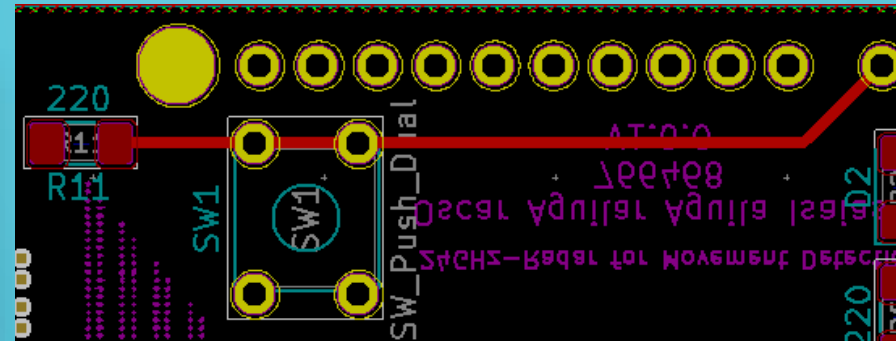
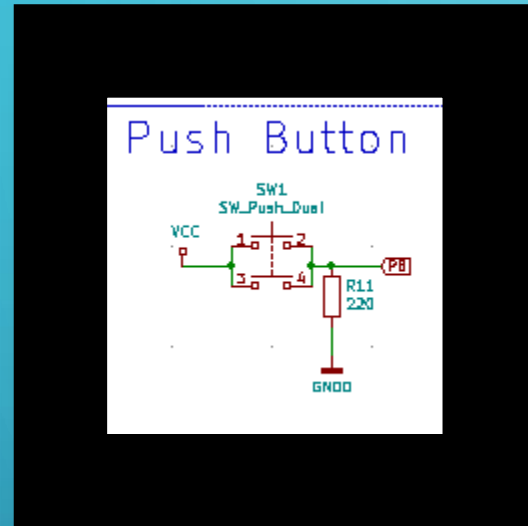
Analog Part



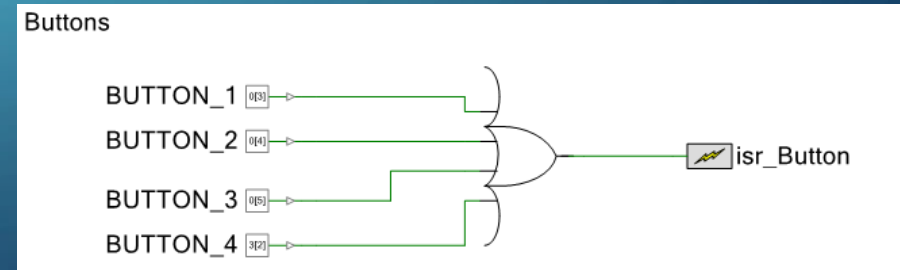


NOTE: FOTOS PRIOR TO END ROTATION

- Physical pull-down resistor for easier user set up



NO CONFIG? NO PROBLEM!



- Everything power or analog 0.5
- VIAS on power indicator for reduced stress
- TP on every stage of amplification
- All networks had names

