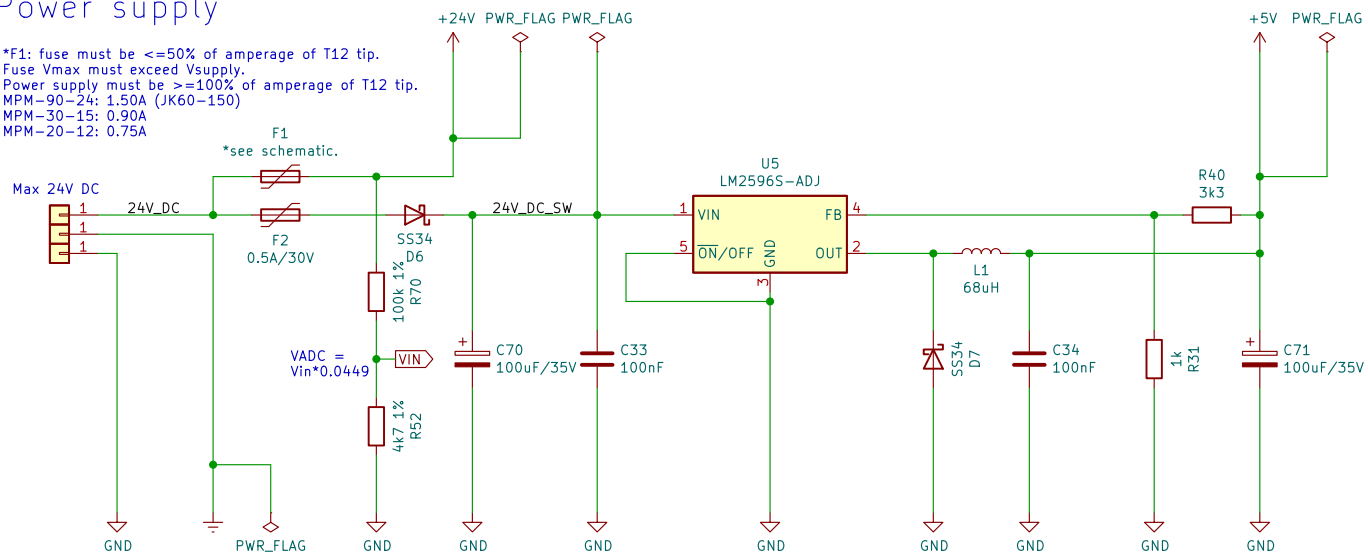




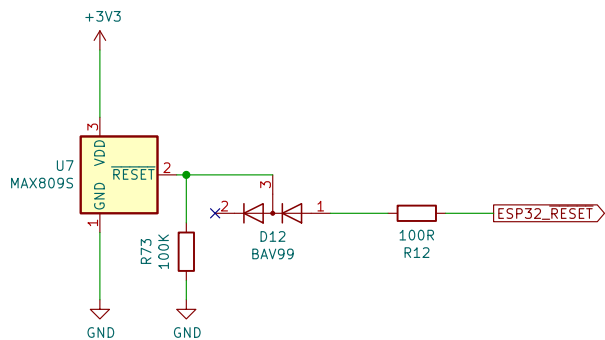
Sheet: /		
File: IoT12 Control Board.kicad_sch		
Title: IoT12-hardware		
Size: A4	Date: 2021-09-26	Rev: V2.1
KiCad E.D.A. kicad (6.0.1)		Id: 1/5

Power supply

*F1: fuse must be <=50% of amperage of T12 tip.
Fuse Vmax must exceed Vsupply.
Power supply must be >=100% of amperage of T12 tip.
MPM-90-24: 1.50A (JK60-150)
MPM-30-15: 0.90A
MPM-20-12: 0.75A



Voltage monitor



Sheet: /Power/
File: IoT12 Control Board Power.kicad_sch

Title: IoT12-hardware power supply

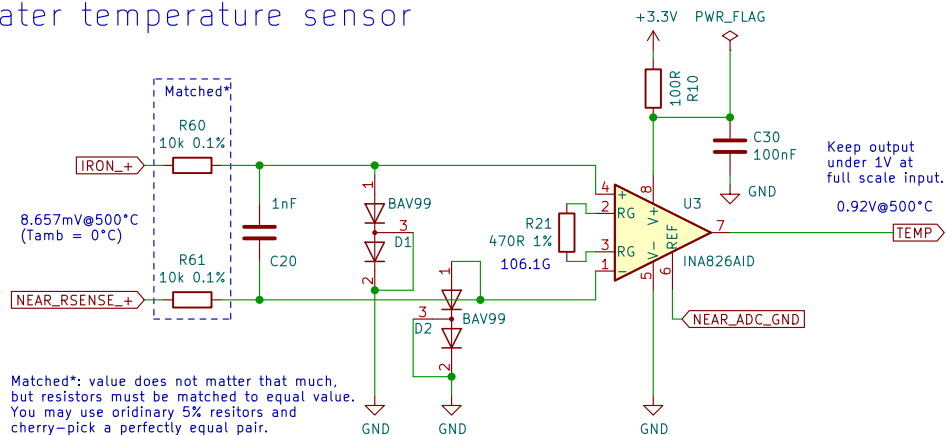
Size: A4 Date: 2021-09-26

KiCad E.D.A. kicad (6.0.1)

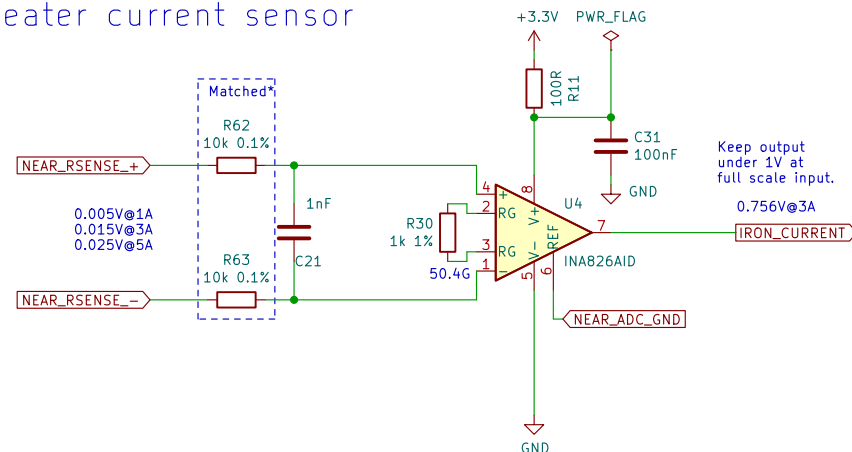
Rev: V2.1

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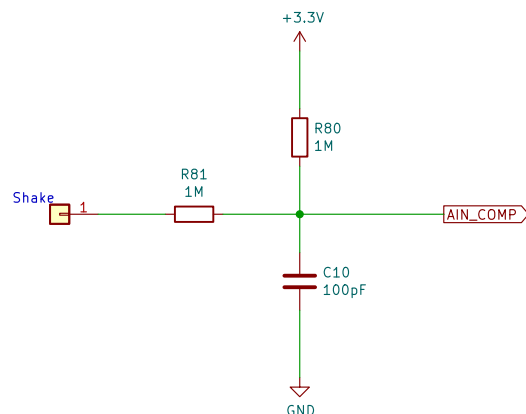
Heater temperature sensor



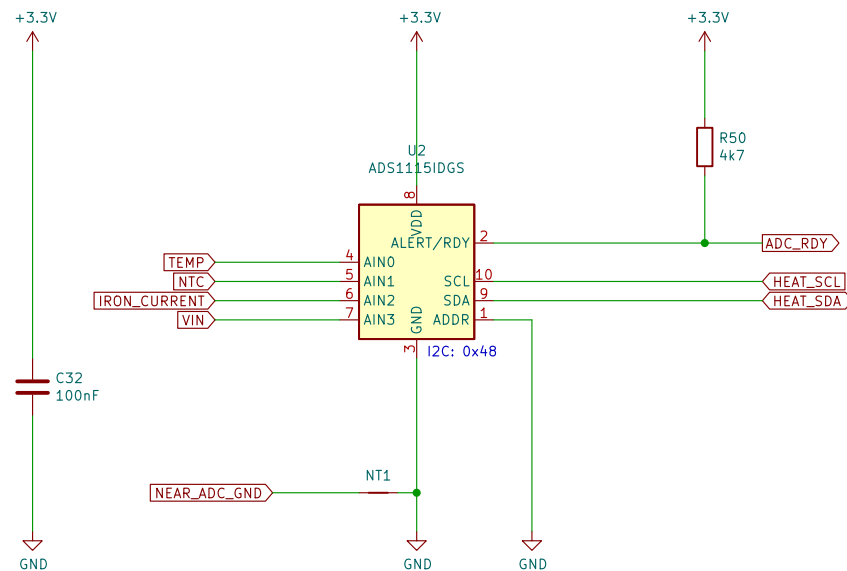
Heater current sensor



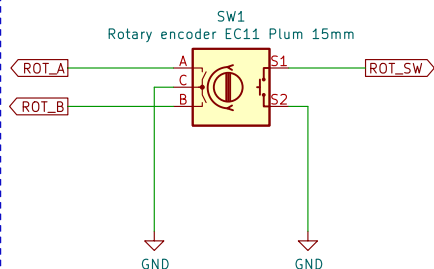
Tilt switch sensor as shake sensor



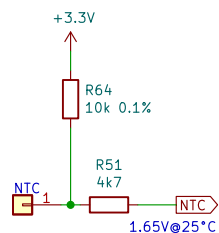
External 16b I2C ADC



User input



Handle NTC



Sheet: /Input/
File: IoT12 Control Board Input.kicad_sch

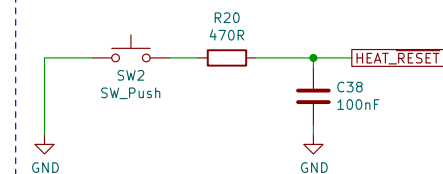
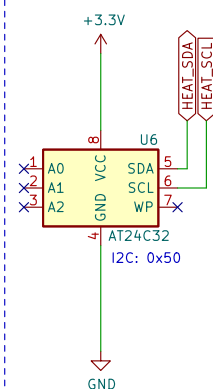
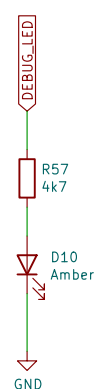
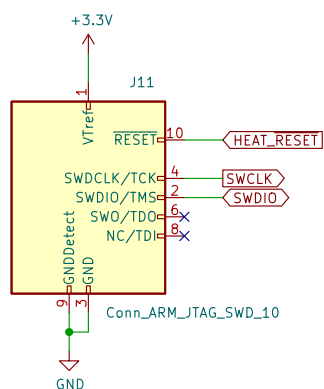
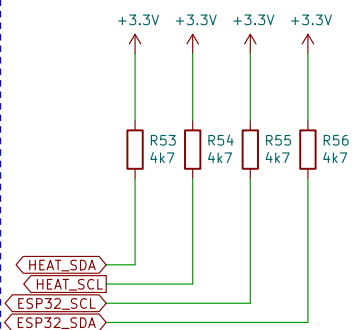
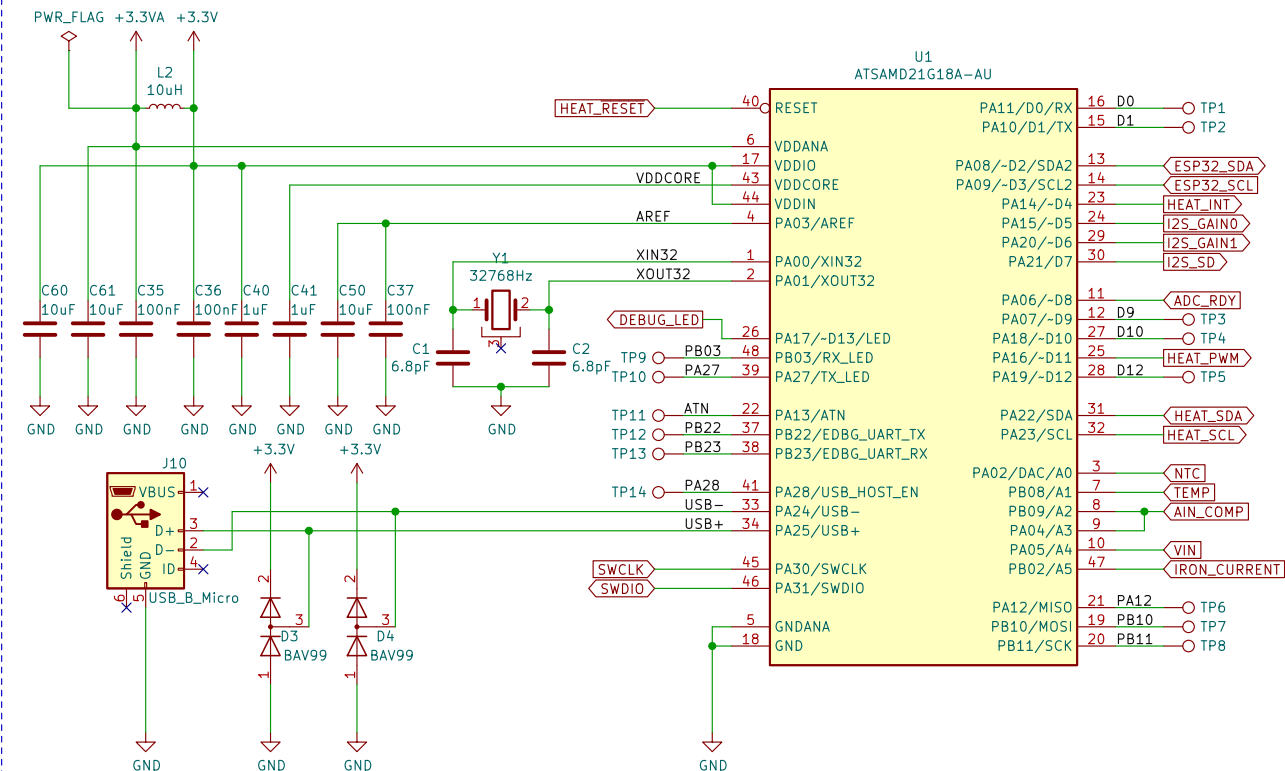
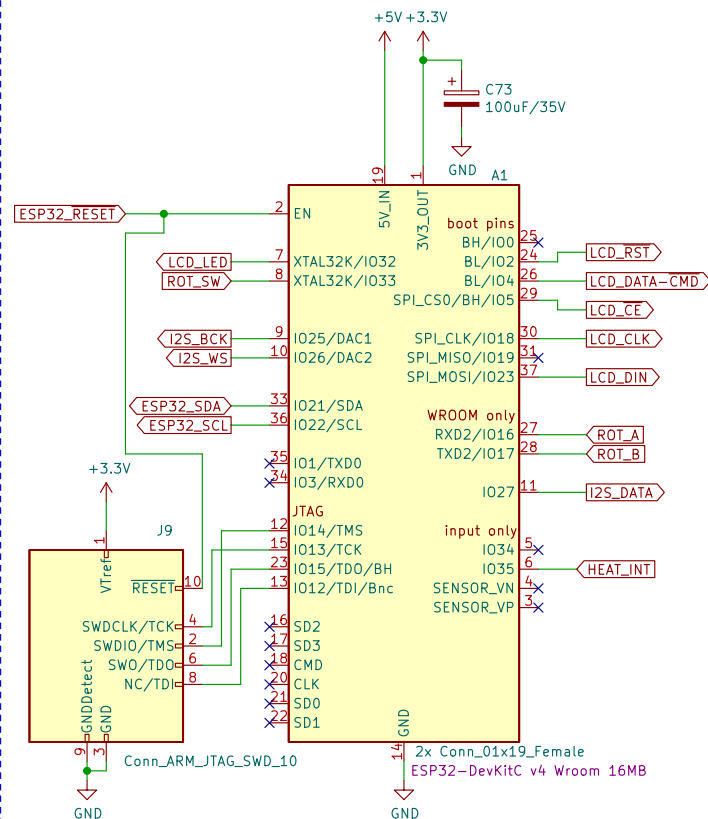
Title: IoT12-hardware input and sensors

Size: A4 Date: 2021-09-26

KiCad E.D.A. kicad (6.0.1)

Rev: V2.1

Id: 3/5



Sheet: /Brain/
File: IoT12 Control Board Brain.kicad_sch

Title: IoT12-hardware brain

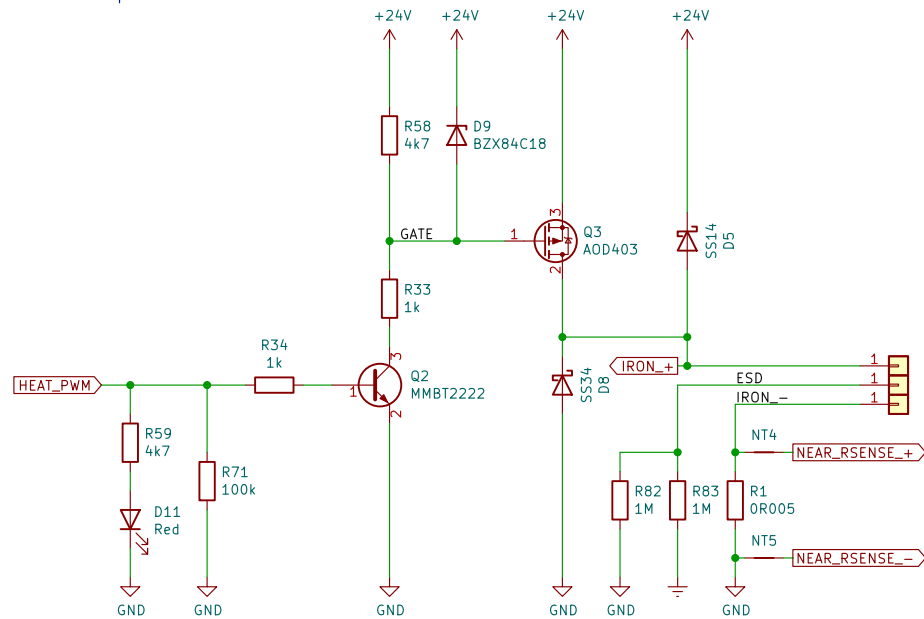
Size: A4	Date: 2021-09-26
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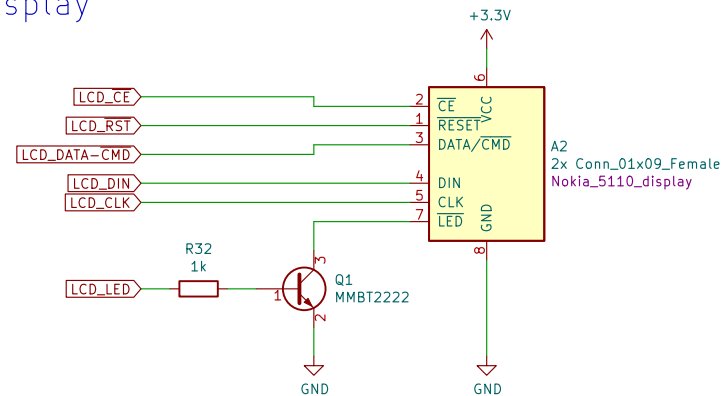
Rev: V2.1

Id: 4/5

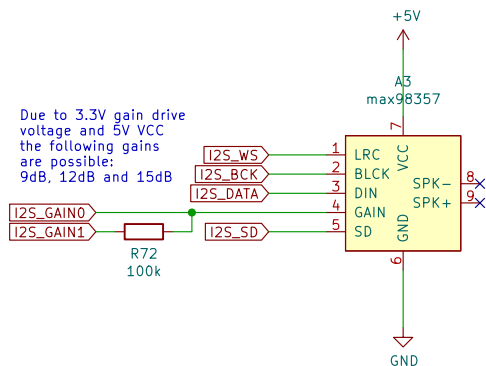
Heater power



Display



Bleep bloop module



Sheet: /Output/
File: IoT12 Control Board Output.kicad_sch

Title: IoT12-hardware output

Size: A4	Date: 2021-09-26
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Size: 71	Date: 20
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