Fans

File: Schematics/fans.kicad_sch

IO

File: Schematics/IO.kicad_sch

MCU

File: Schematics/MCU.kicad_sch

Power

File: Schematics/power.kicad_sch

tempSensor

File: Schematics/tempSensor.kicad_sch

Servo

File: Schematics/servo.kicad_sch

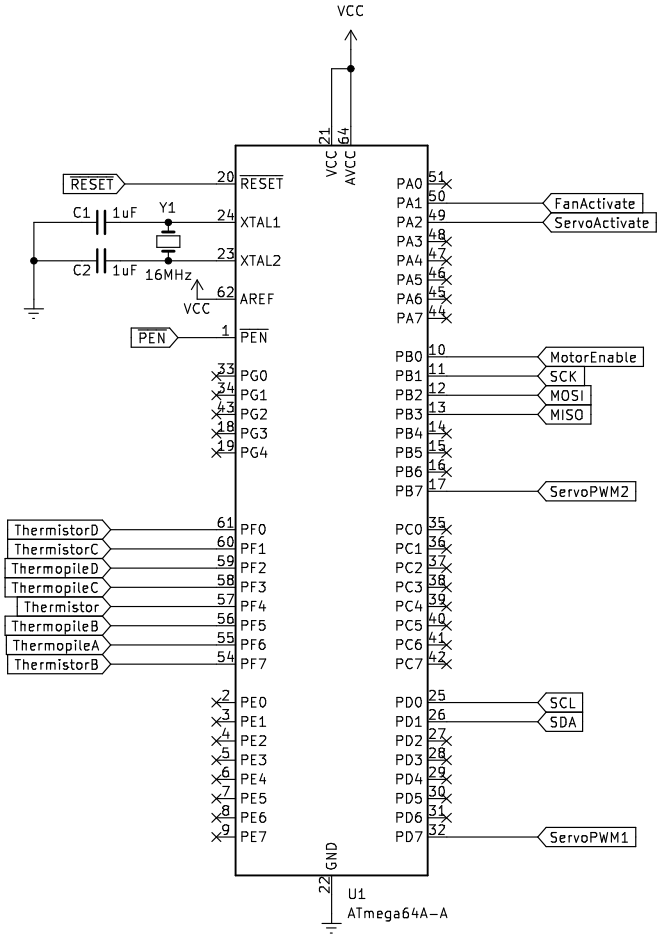
Testpoints

File: Schematics/testpoints.kicad_sch

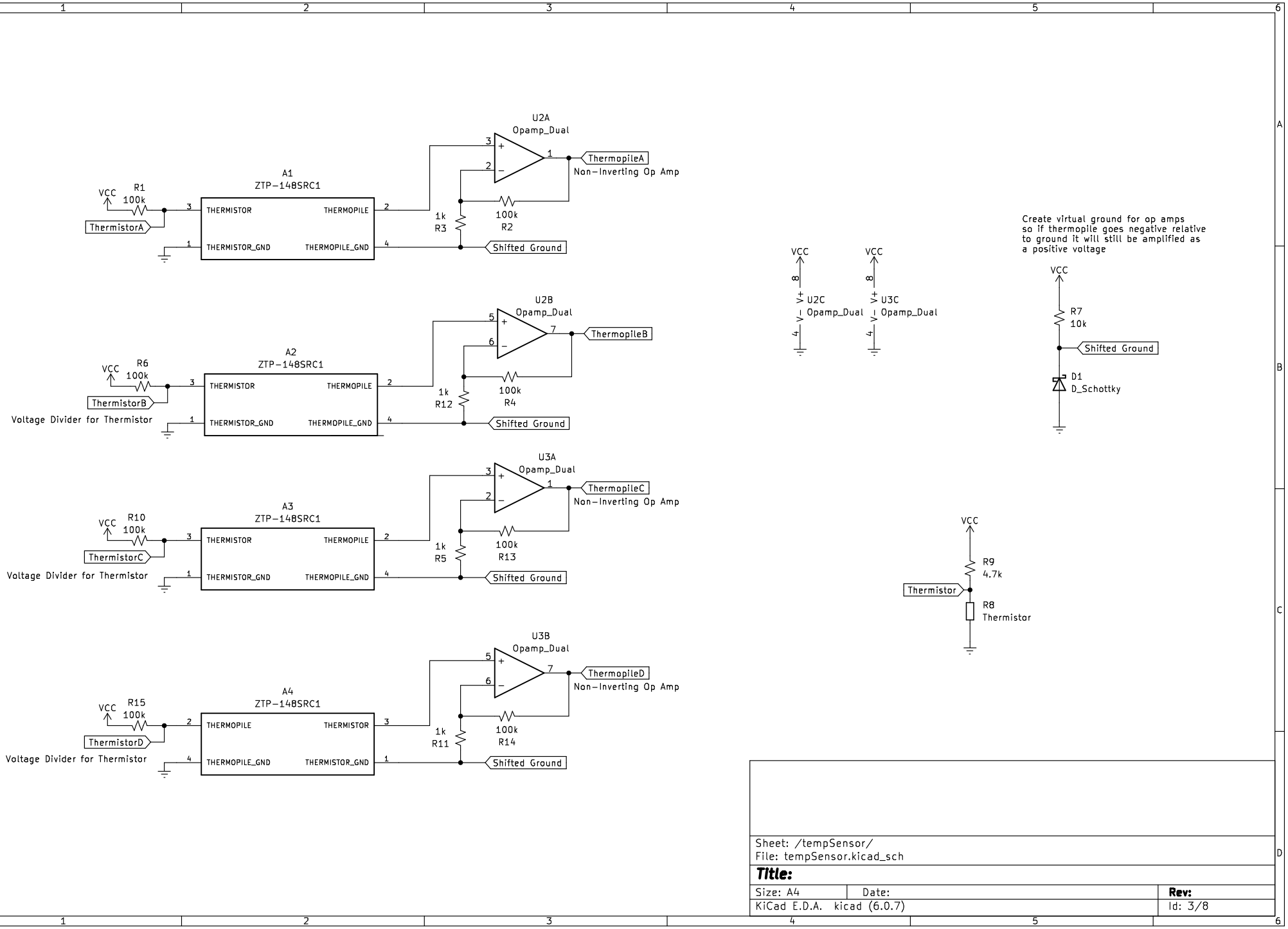
Sheet: /
File: Smart Floor Register.kicad_sch

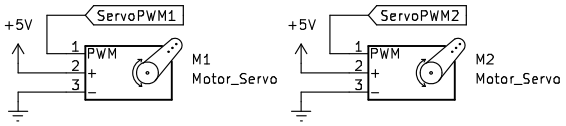
Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 1/8

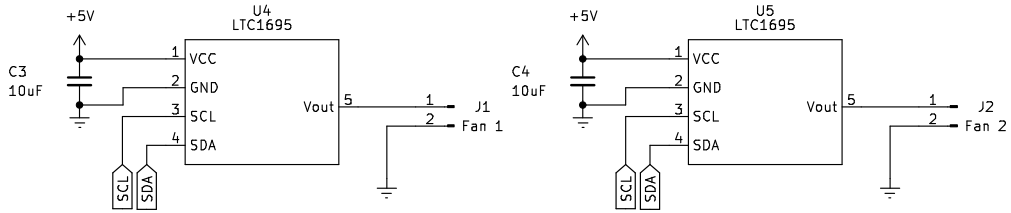


Sheet: /MCU/ File: MCU.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 2/8

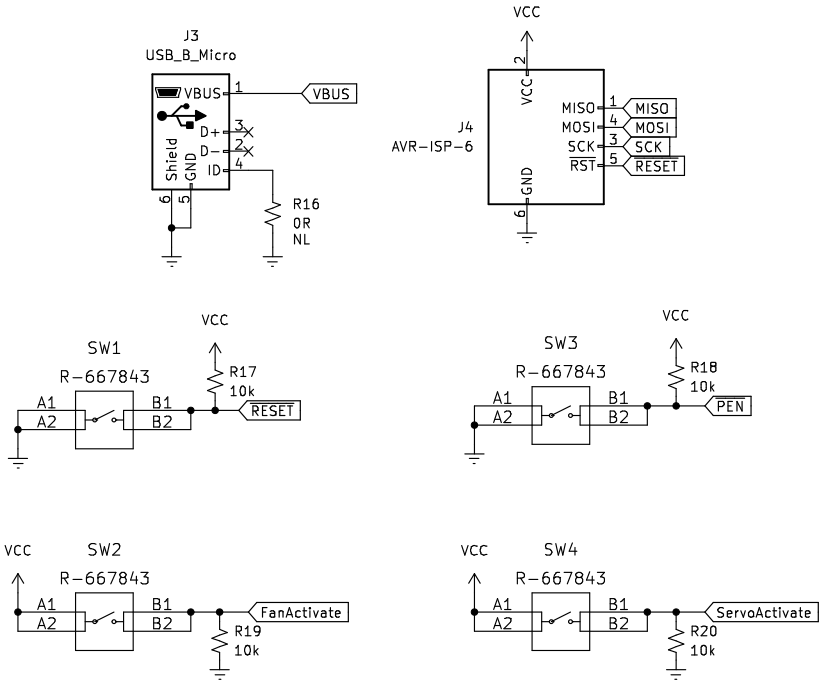

U2A
Opamp_Dual
A1
ZTP-148SRC1
VCC
R1
100k
ThermistorA
THERMISTOR
THERMOPILE
THERMISTOR_GND
THERMOPILE_GND
1k
R3
100k
R2
ThermopileA
Non-Inverting Op Amp
Shifted Ground
U2B
Opamp_Dual
A2
ZTP-148SRC1
R6
100k
ThermistorB
Voltage Divider for Thermistor
1k
R12
100k
R4
ThermopileB
Shifted Ground
U3A
Opamp_Dual
A3
ZTP-148SRC1
R10
100k
ThermistorC
Voltage Divider for Thermistor
1k
R5
100k
R13
ThermopileC
Non-Inverting Op Amp
Shifted Ground
U3B
Opamp_Dual
A4
ZTP-148SRC1
R15
100k
ThermistorD
Voltage Divider for Thermistor
1k
R11
100k
R14
ThermopileD
Non-Inverting Op Amp
Shifted Ground
VCC
U2C
Opamp_Dual
VCC
U3C
Opamp_Dual
Create virtual ground for op amps
so if thermopile goes negative relative
to ground it will still be amplified as
a positive voltage
VCC
R7
10k
Shifted Ground
D1
D_Schottky
VCC
R9
4.7k
Thermistor
R8
Thermistor
Sheet: /tempSensor/
File: tempSensor.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.7)
Id: 3/8



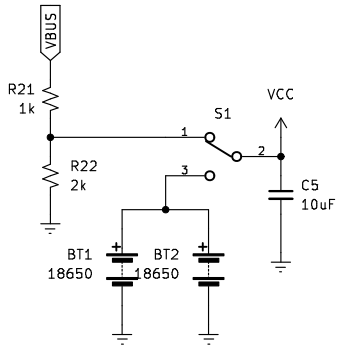
Sheet: /Servo/ File: servo.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 4/8

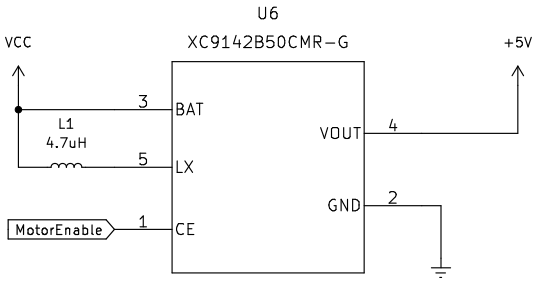


Sheet: /Fans/ File: fans.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 5/8

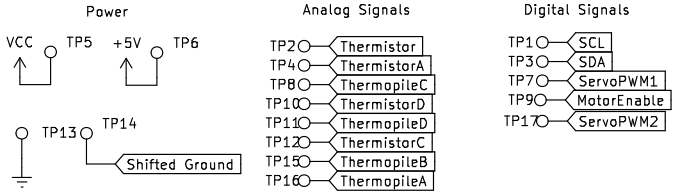


Sheet: /IO/		
File: IO.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 6/8





Sheet: /Power/ File: power.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 7/8



Sheet: /Testpoints/		
File: testpoints.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.7)		Id: 8/8