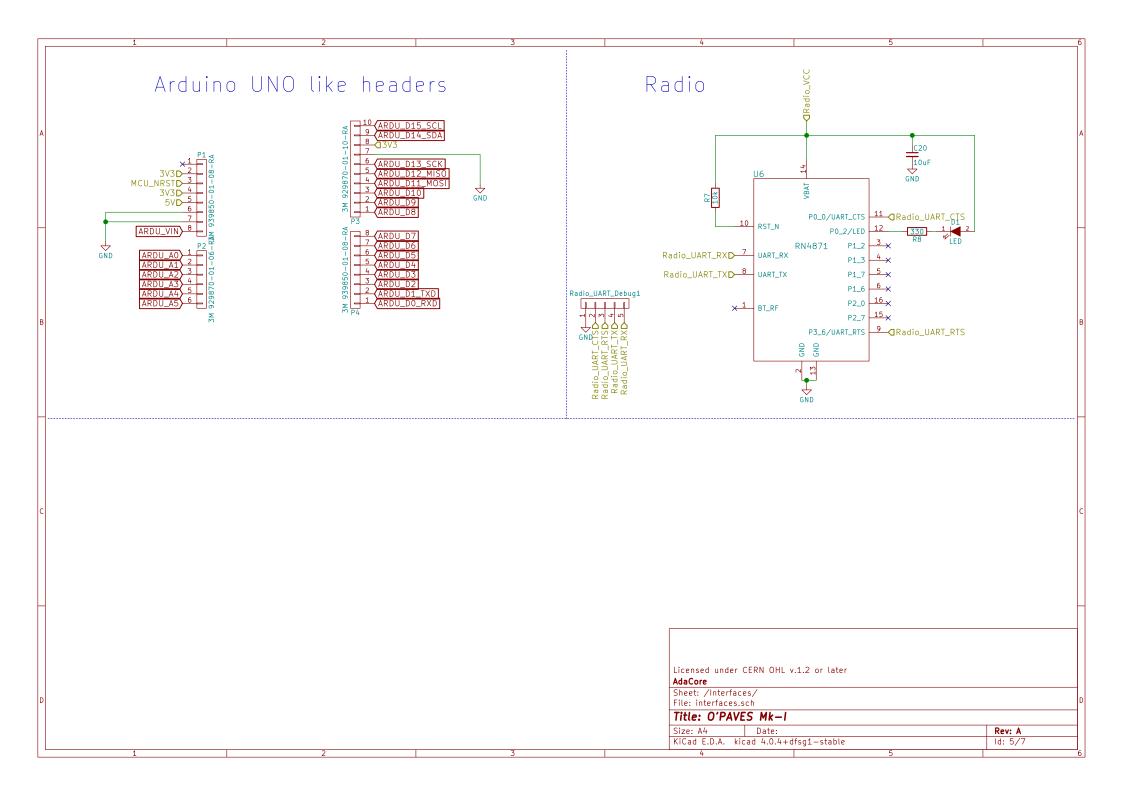
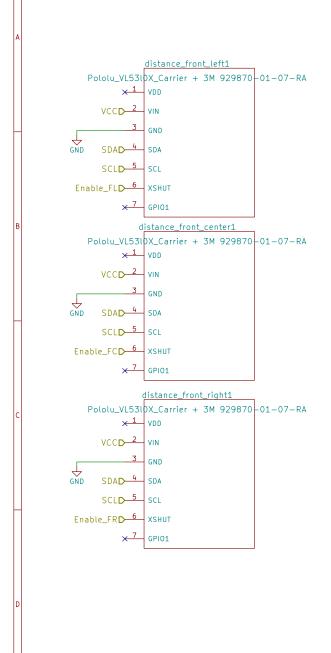
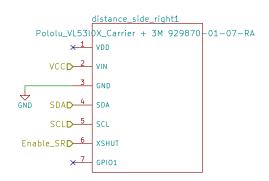


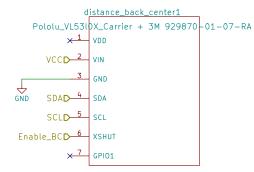
## Battery 5V step up / step down regulator 3 Cell NiMH: - Max: 4.5V - Typical: 3.6V - Low: 2.7V Pololu\_StepUp/Down\_Regulator + MOLEX 22-28-5044 VBATD • **⊸**UBAT STM32F4 VBAT must be from 1.65V to 3.6V. Since the battery voltage is outside this range, we use a 2/3 voltage divider to adjust it. SHDN Pololu 5V Step-Up/Step-Down Voltage Regulator S7V8F5 VBAT MAX : 4.5V -> 3V VBAT Min : 2.7V -> 1.8V **⊸**VBAT\_SENSE At some point this should be directly in the project rather than relying on an external board. For the moment it's the more convenient solution. TODO: Reverse polarity protection (maybe) 3.3V step up / step down regulator StepUp\_StepDown\_3V3 Pololu\_StepUp/Down\_Regulator + MOLEX 22-28-5044 VBAT**D**→ SHDN Pololu 3.3V Step-Up/Step-Down Voltage Regulator S7V8F3 At some point this should be directly in the project rather than relying on an external board. For the moment it's the more convenient solution. Licensed under CERN OHL v.1.2 or later AdaCore Sheet: /Power/ File: power.sch Title: O'PAVES Mk-I Size: A4 Rev: A KiCad E.D.A. kicad 4.0.4+dfsq1-stable Id: 4/7



## Distance sensors







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AdaCore

Sheet: /Sensors/ File: sensors.sch

Title: O'PAVES Mk-I
Size: A4 Date:

 Size: A4
 Date:
 Rev: A

 KiCad E.D.A. kicad 4.0.4+dfsg1-stable
 Id: 6/7

