

Avionics.sch

Power.sch

Connectors.sch

RF_and_GPS.sch

Country	Year	Sample size	Study
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
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Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne
Australia	2000	1,000	Hawthorne

Burn_Wires.sch

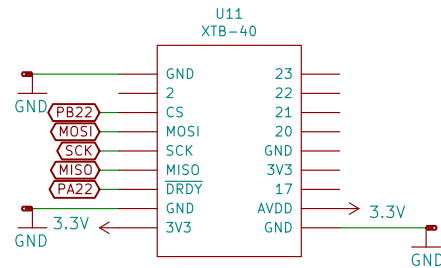
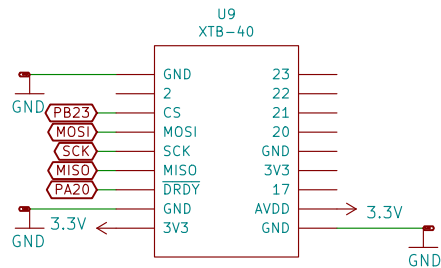
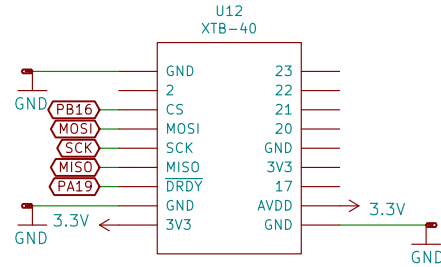
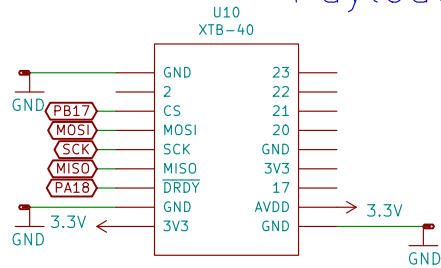
Sheet: /
File: mainboard.sch

Title: PyCubed Mainboard

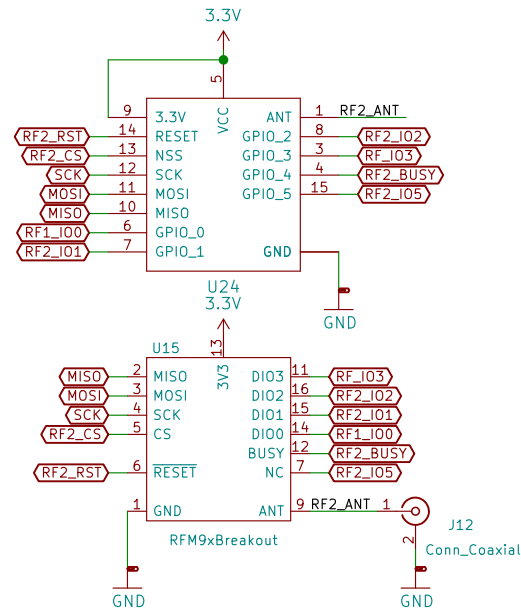
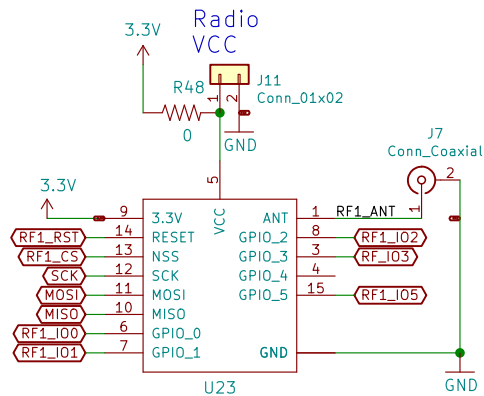
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KiCad E.D.A. kicad (5.1.0)-1	

Rev: v03
Id: 1/6

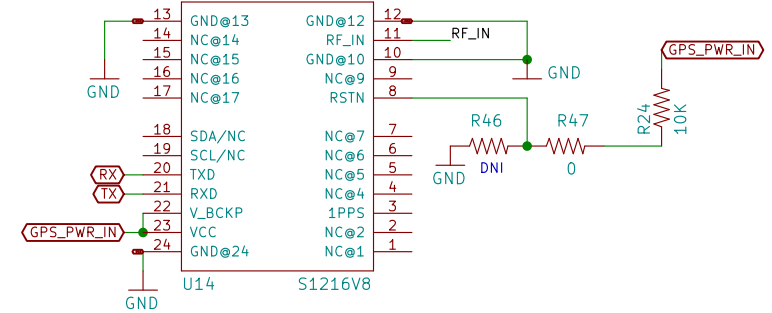
Payload Modules



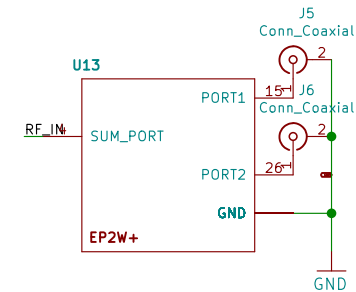
HopeRF RFM98PW module at 3.3V



GPS Module



RF Splitter (2 Way, 0deg DC-Pass)



Zac Manchester
Max Holliday
rexlab.stanford.edu

Stanford University

Sheet: /RF and GPS/
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Title: PyCubed Mainboard

Size: A4

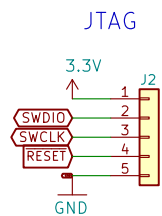
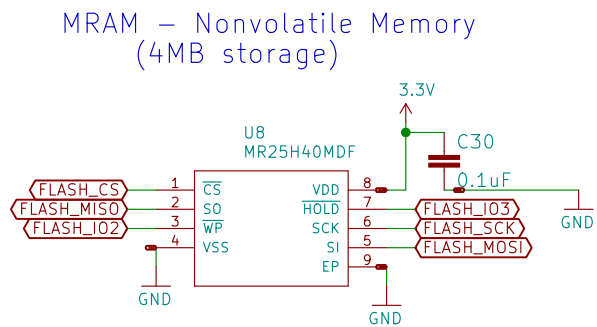
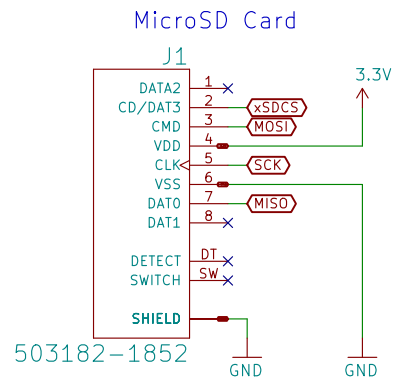
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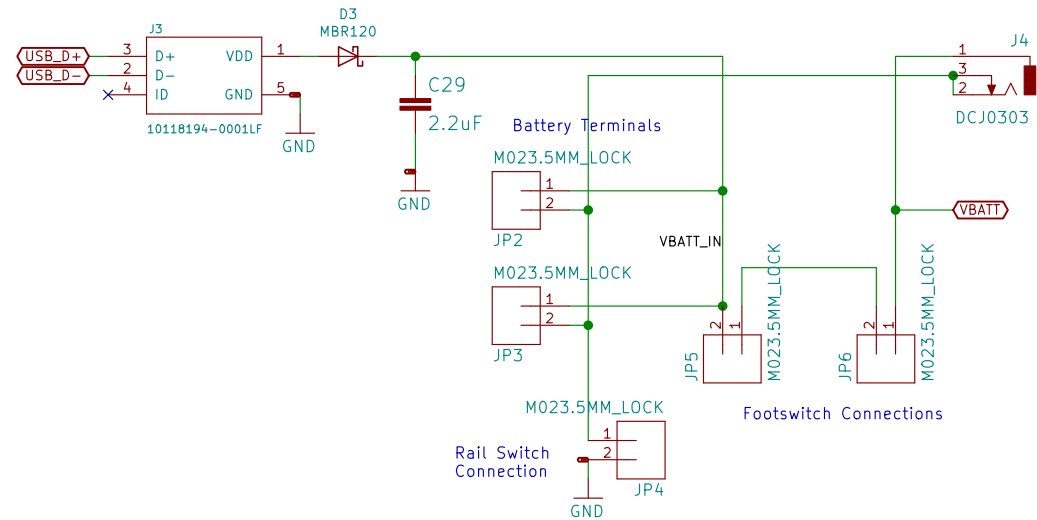
Rev: v03

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Radio, GPS, Payloads



Power Connectors: USB, Barrel Plug, Battery



Zac Manchester
Max Holliday
rexlab.stanford.edu
Stanford University

Sheet: /Connectors/
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Title: PyCubed Mainboard

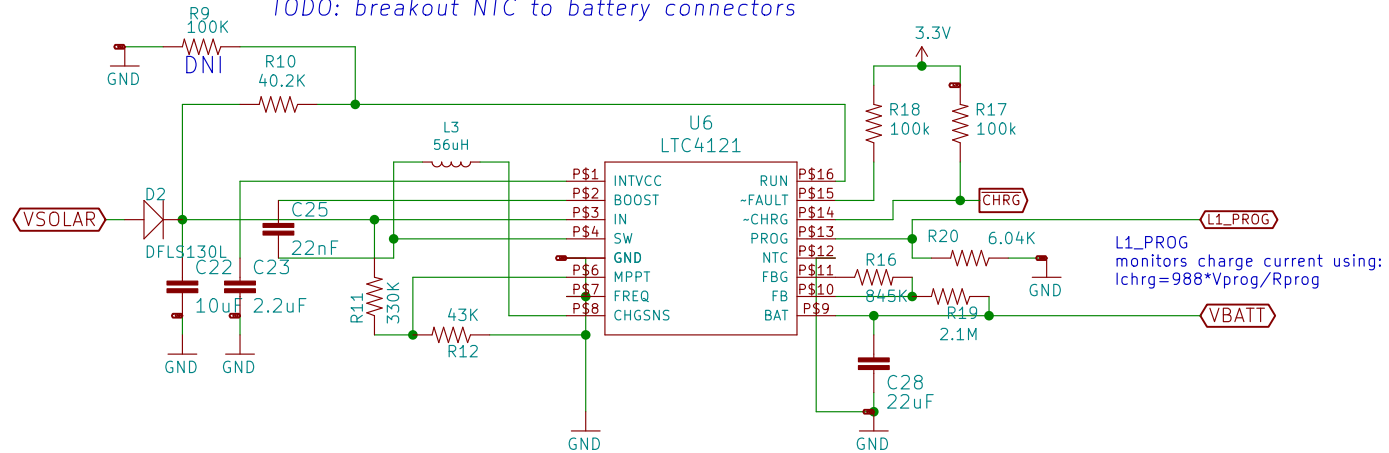
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Rev: v03
Id: 4/6

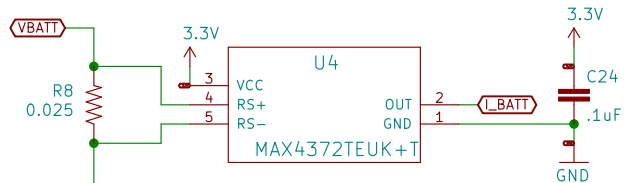
Connectors

2s2P Li-Ion Battery Charging Circuit

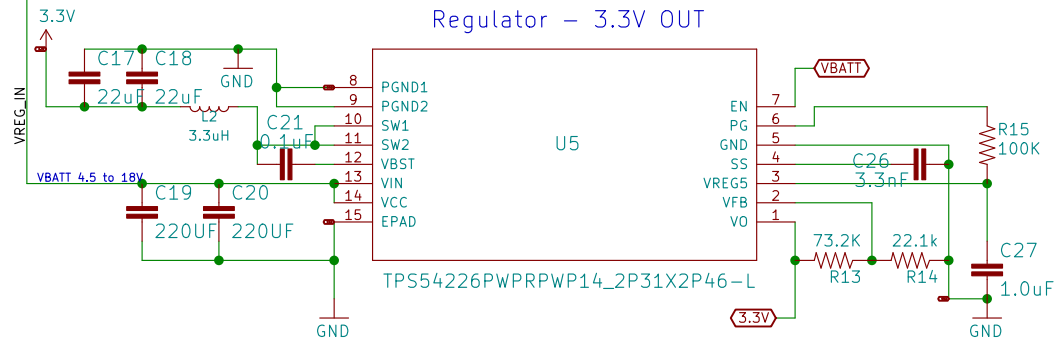
TODO: breakout NTC to battery connectors



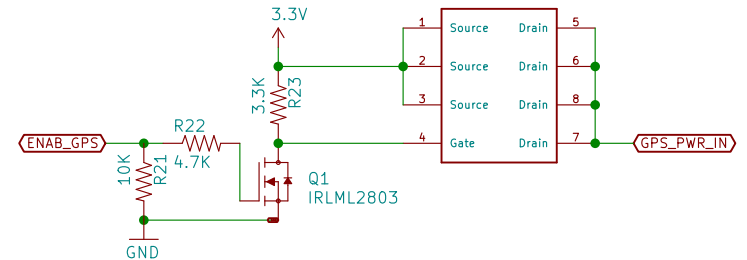
Battery Current Sensor



Regulator - 3.3V OUT



GPS Power



Power

Zac Manchester
Max Holliday
rexlab.stanford.edu
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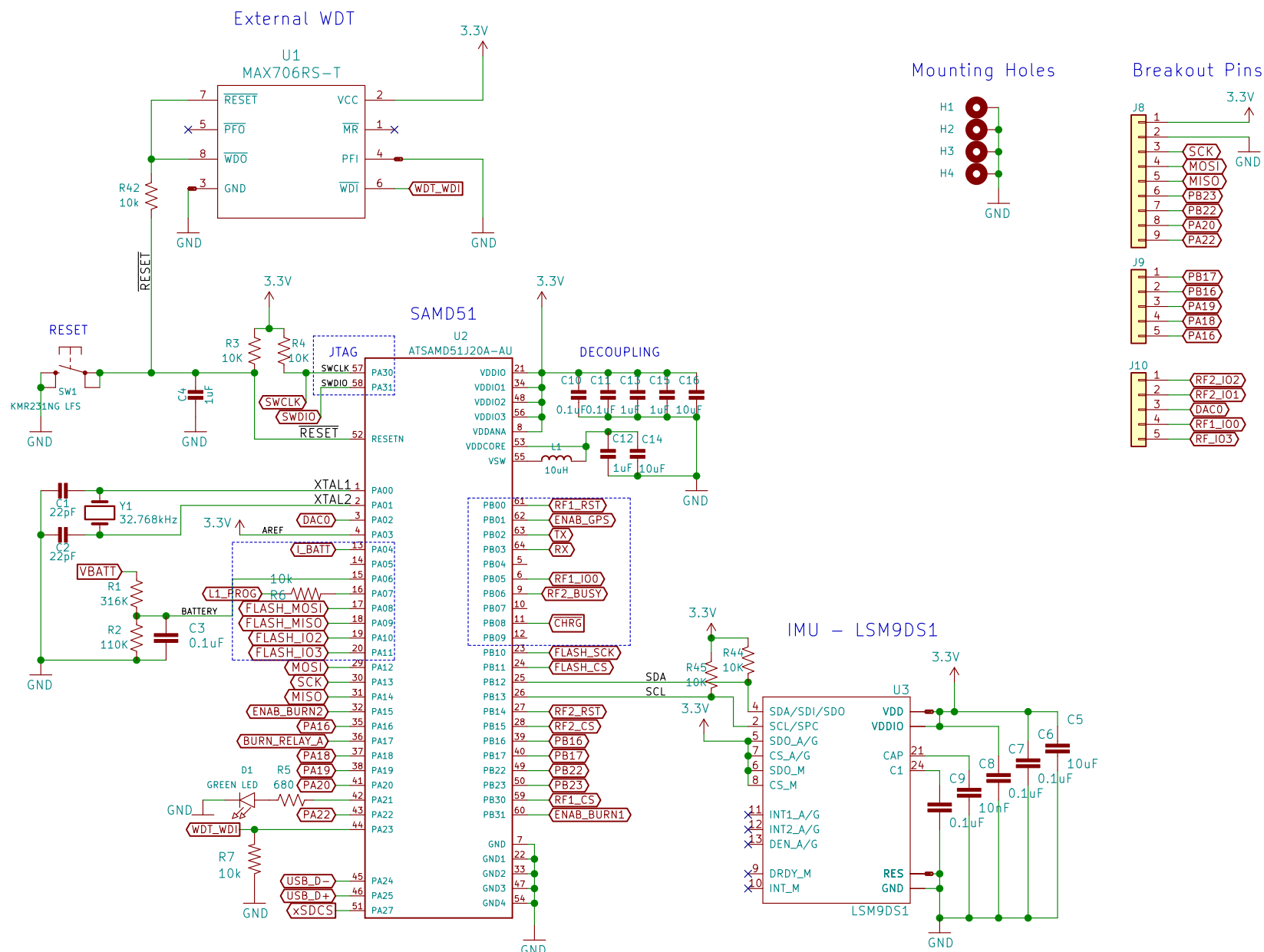
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Size: A4
KiCad E.D.A. kicad (5.1.0)-1

Date:

Rev: v03

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Avionics

Title: PyCubed Mainboard

Size: User
KiCad E.D.A. kicad (5.1.0)-1

Date:

Rev: v03
Id: 6/6