

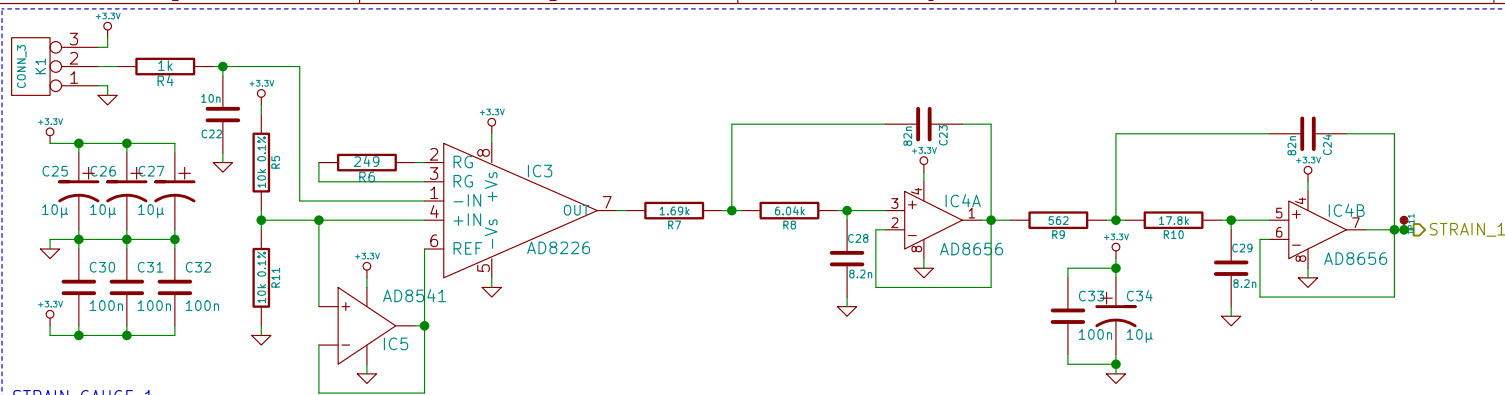
Drawn By: Adam Greig
Cambridge University Spaceflight

Sheet: /
File: m2fc.sch

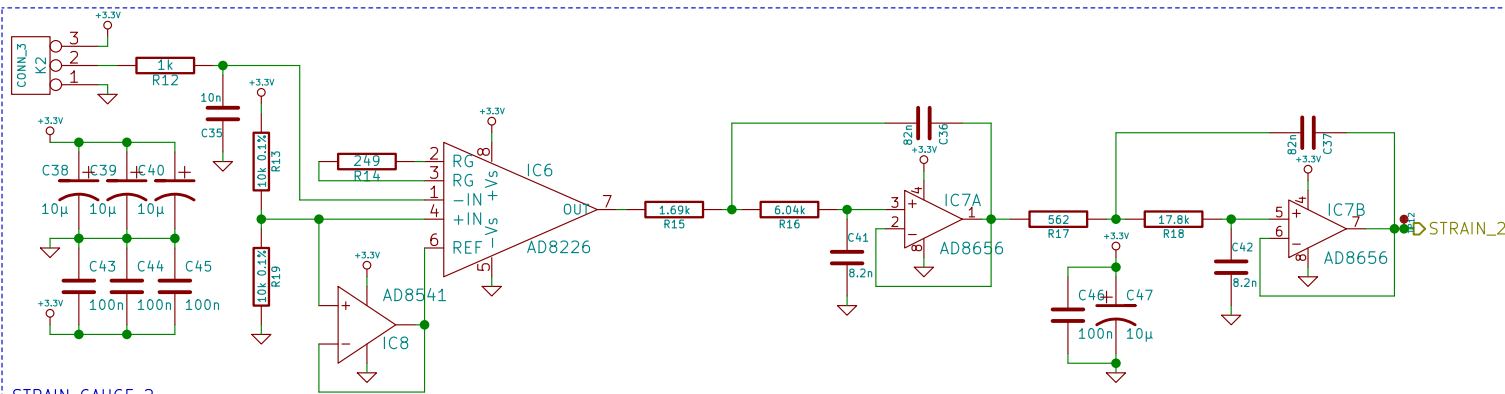
Title: Martlet 2 Flight Computer

Size: A4 Date: 05 Jul 2014
KiCad E.D.A. eeschema (2014-jan-25)-product

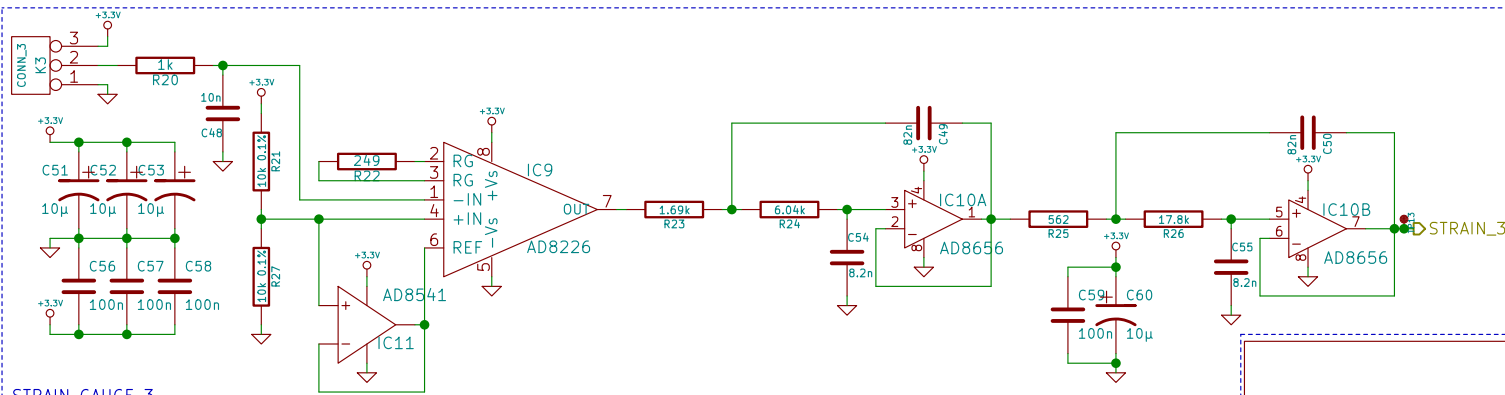
Rev: 1
Id: 1/6



STRAIN GAUGE 1



STRAIN GAUGE 2



STRAIN GAUGE 3

FILTERING

=====
 Signals of interest: 0 to 1200Hz
 Nyquist: 10kHz
 Sample: 20kHz

FRONTEND FILTER

 $F_c = 1/(2 \pi RC) = 16\text{kHz}$

ANTI_ALIAS FILTER

 -3dB: 2kHz
 Rejection at Nyquist: -55dB

STRAIN GAUGES

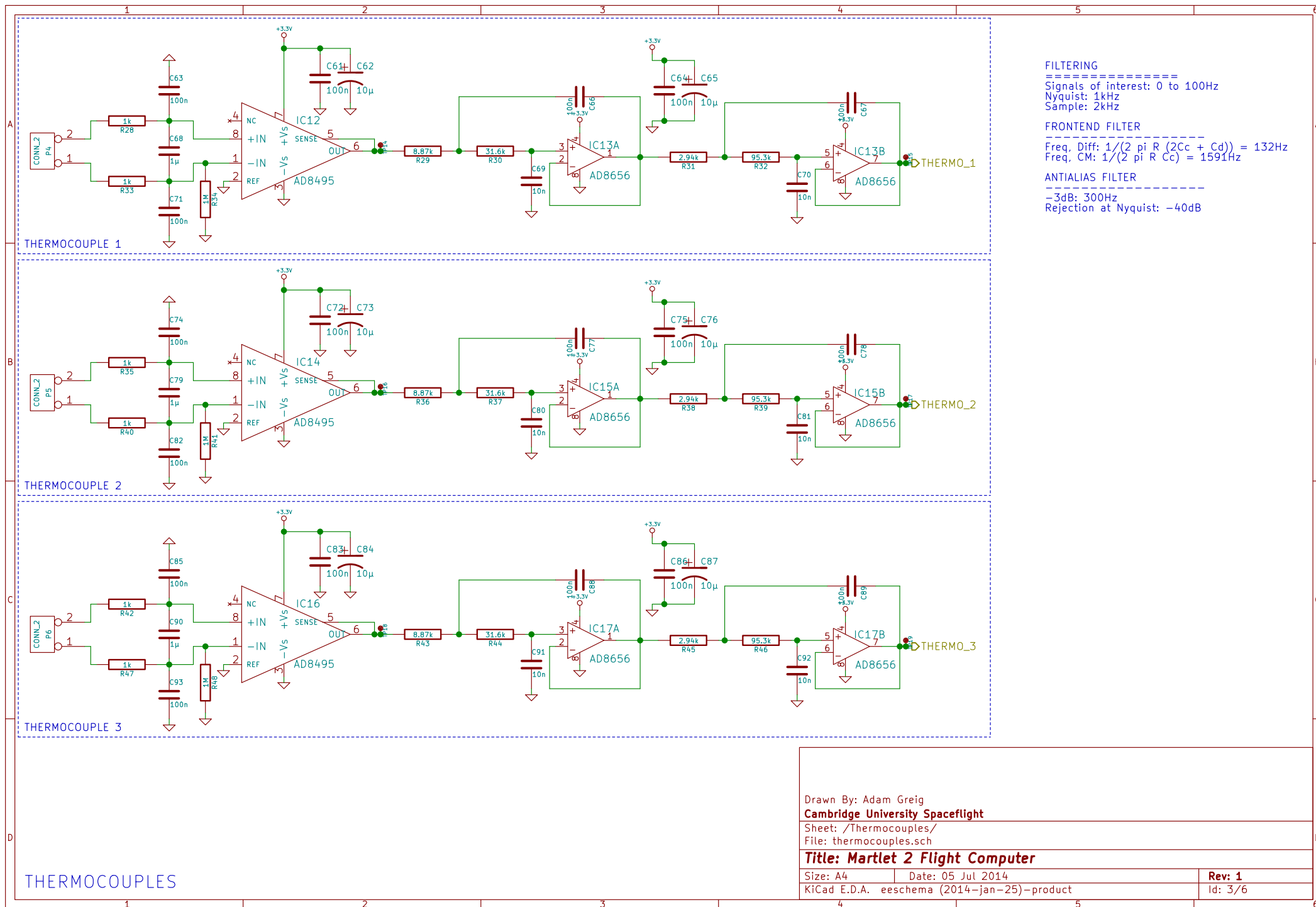
Drawn By: Adam Greig
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Sheet: /StrainGauges/
 File: straingauges.sch

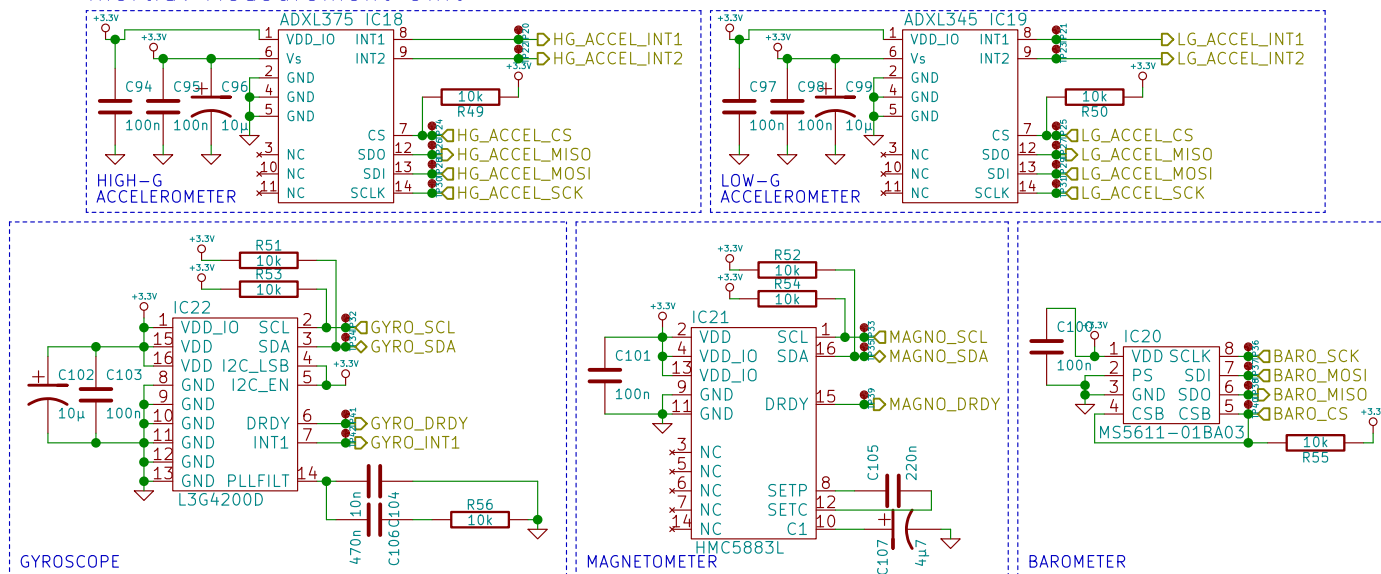
Title: Martlet 2 Flight Computer

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Rev: 1
 Id: 2/6



Inertial Measurement Unit



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Sheet: /IMU/

File: imu.sch

Title: Martlet 2 Flight Computer

Size: A4

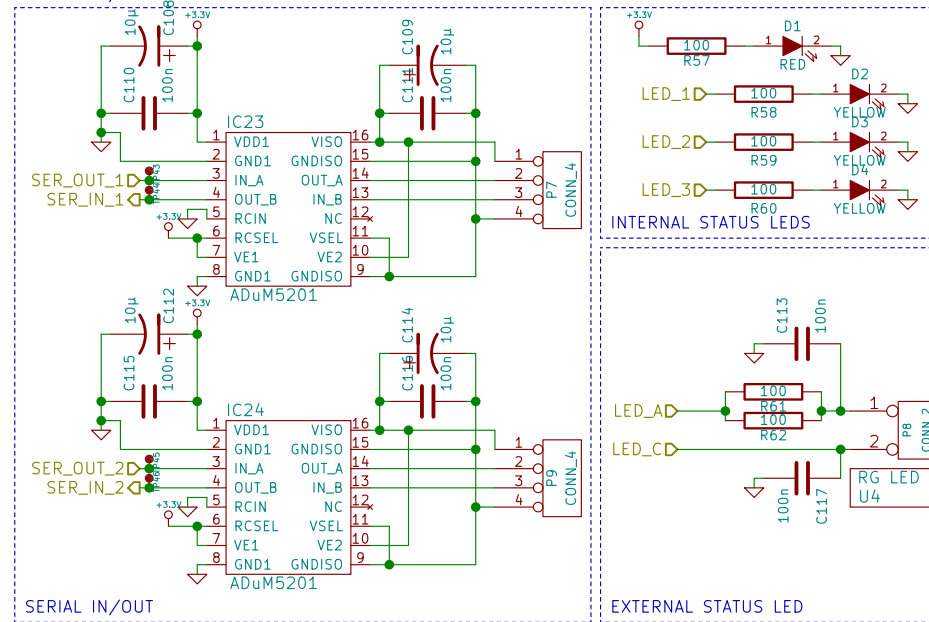
Date: 05 Jul 2014

Rev: 1

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INPUT/OUTPUT



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Sheet: /10/
File: io.sch

Title: Martlet 2 Flight Computer

Size: A4 Date: 05 Jul 2014
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Rev: 1
Id: 5/6

PYROTECHNIC CIRCUIT 1

PYROTECHNIC CIRCUIT 2

Sheet: /Pyros/		
File: pyros.sch		
Title: Martlet 2 Flight Computer		
Size: A4	Date: 05 Jul 2014	Rev: 1
KiCad E.D.A. eeschema (2014-jan-25)-product		Id: 6/6