

Wiring diagram for the back of Sting

Eric Conley

Edited by Samuel Ellicott

**Cedarville University**

Sheet: /Back Of Car/

File: Back\_Of\_Car.sch

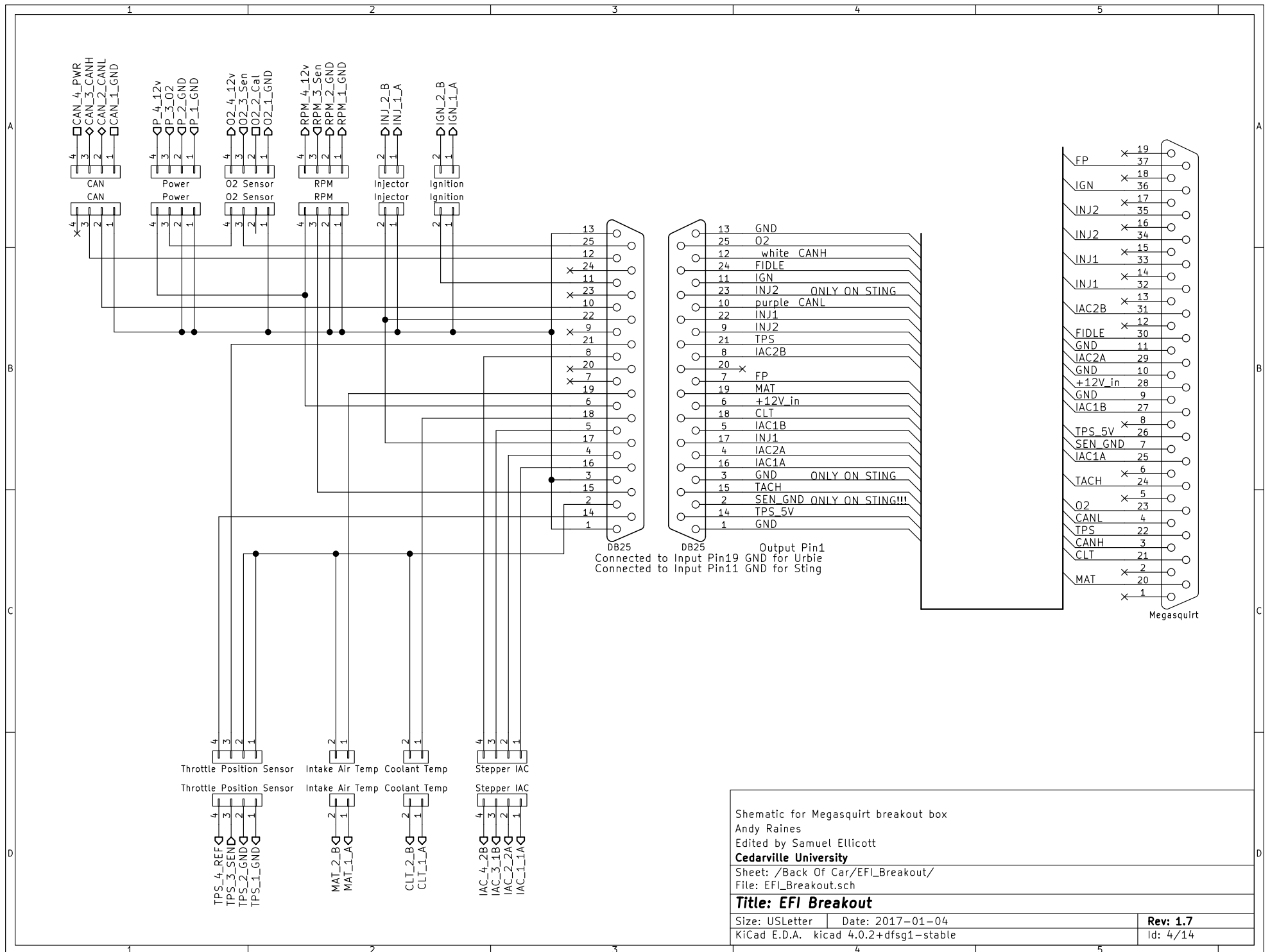
**Title: Sting – Gasoline Prototype**

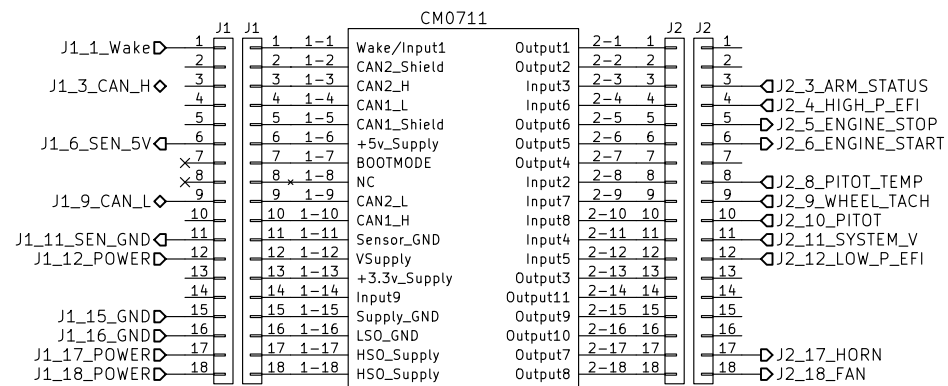
Size: USLetter Date: 2017-01-02

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**Rev: 1.2**

Id: 3/14





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 CM0711 Computer sheet  
 Cedarville University  
 Sheet: /CM0711/  
 File: Computer.sch

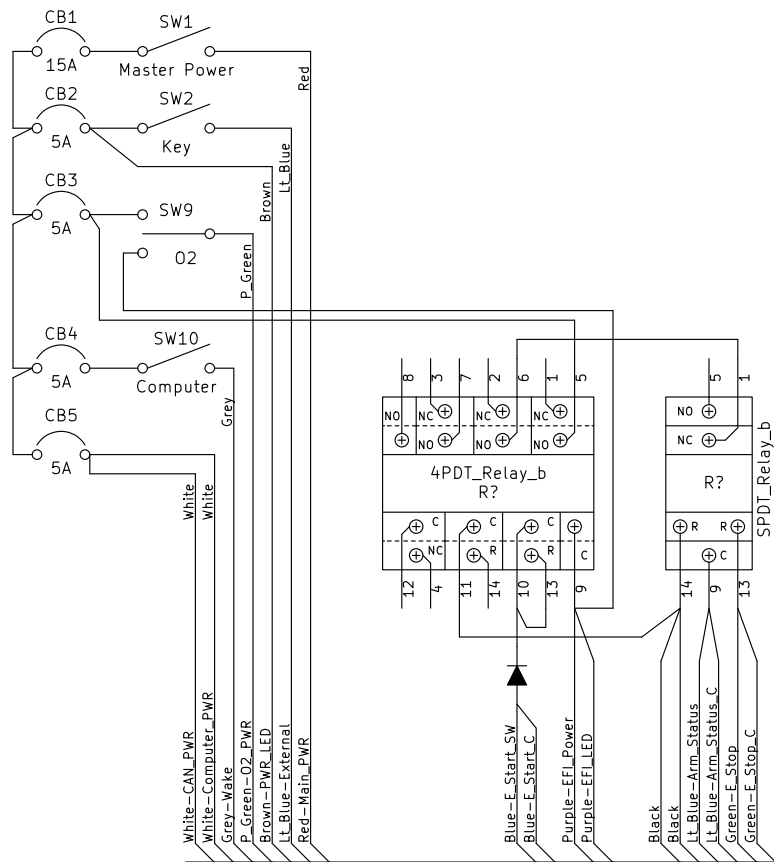
**Title: Sting – Gasoline Prototype**

Size: USLetter Date: 2017-01-01

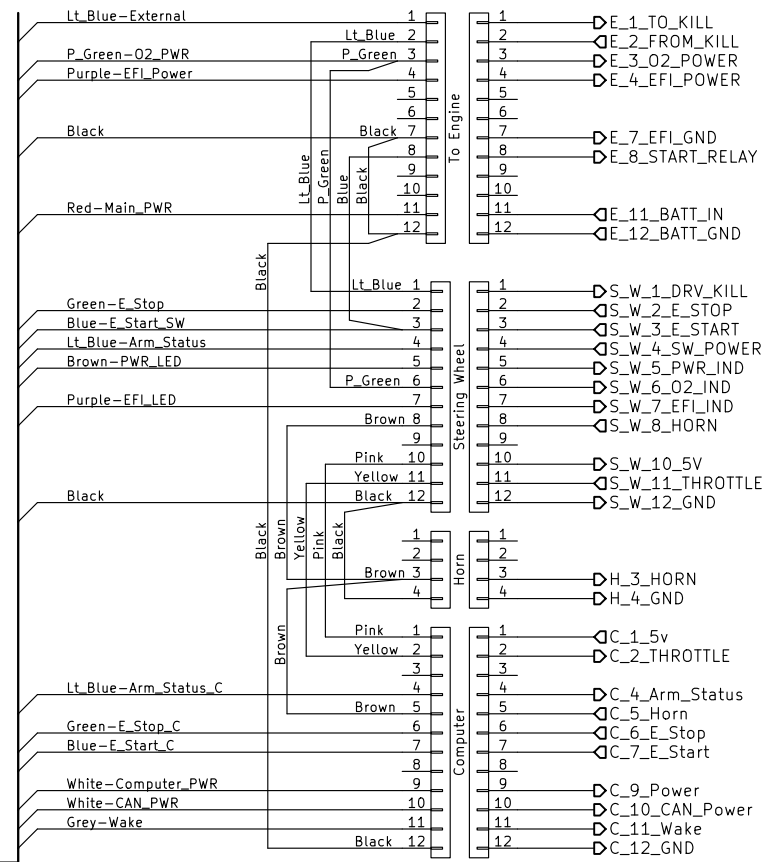
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Rev: 1.0

Id: 5/14



Wires with a C suffix provide the same functionality as the non-C wire but are connected to the computer.



Eric Conley  
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Sheet: /Relay Box (Box of Doom)/  
File: Relay\_Box.sch

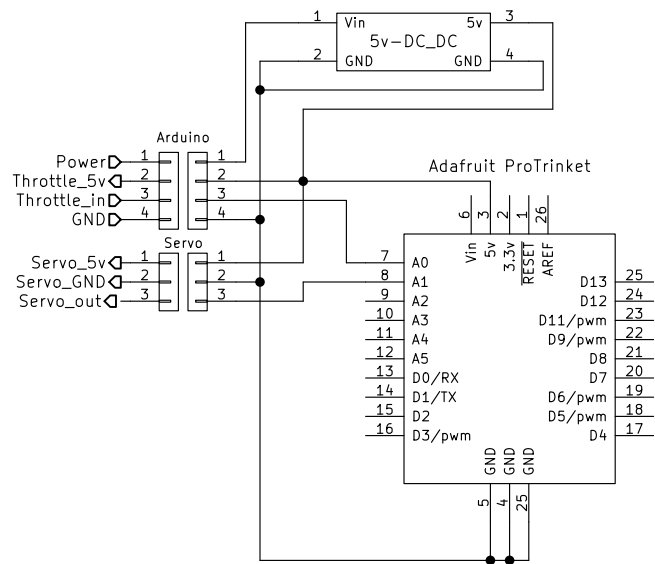
**Title: Sting – Gasoline Prototype**

Size: USLetter Date: 2017-01-04

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**Rev: 1.6**

Id: 6/14

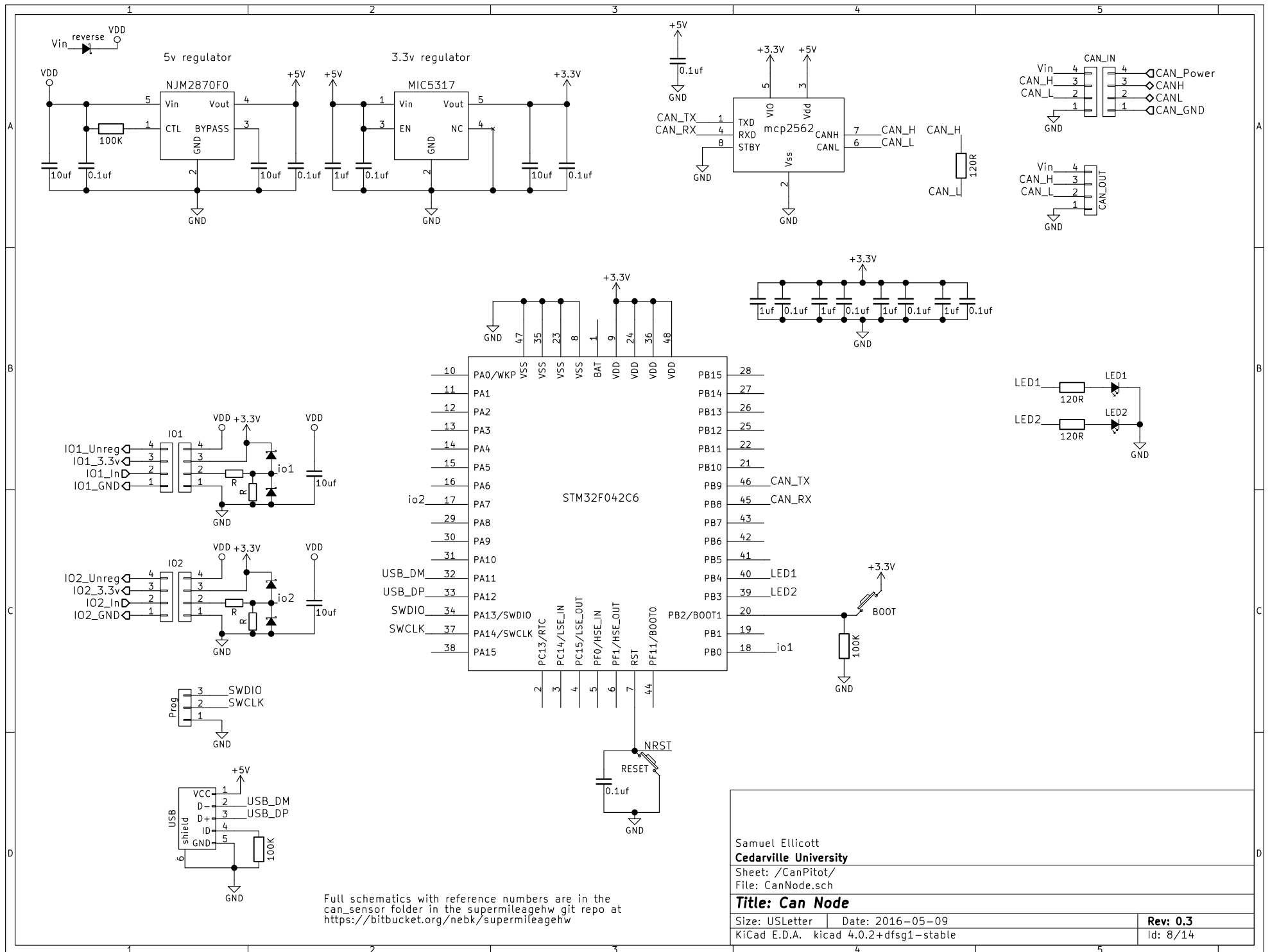


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 Sheet: /Arduino/  
 File: Arduino.sch

**Title: Arduino Breakout**

Size: USLetter Date: 2017-01-04  
 KiCad E.D.A. kicad 4.0.2+dfsg1-stable

**Rev: 1.0**  
 Id: 7/14



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Sheet: /CanPitot/  
File: CanNode.sch

**Title: Can Node**

Size: USLetter Date: 2016-05-09

KiCad E.D.A. kicad 4.0.2+dfsg1-stable

**Rev: 0.3**

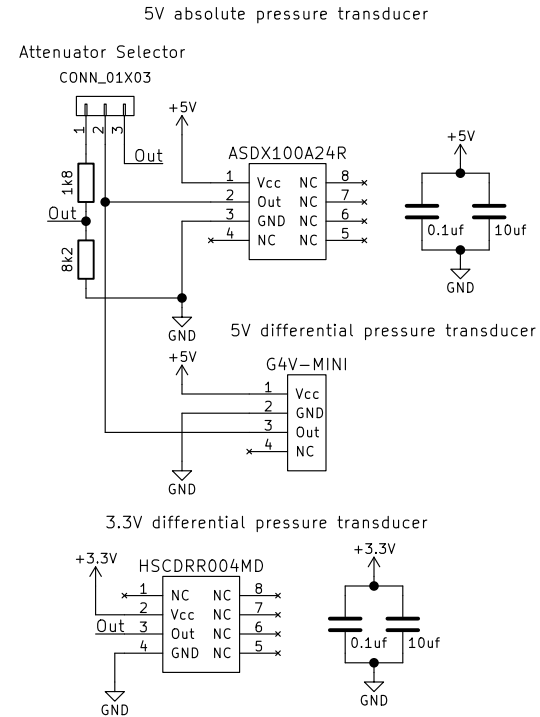
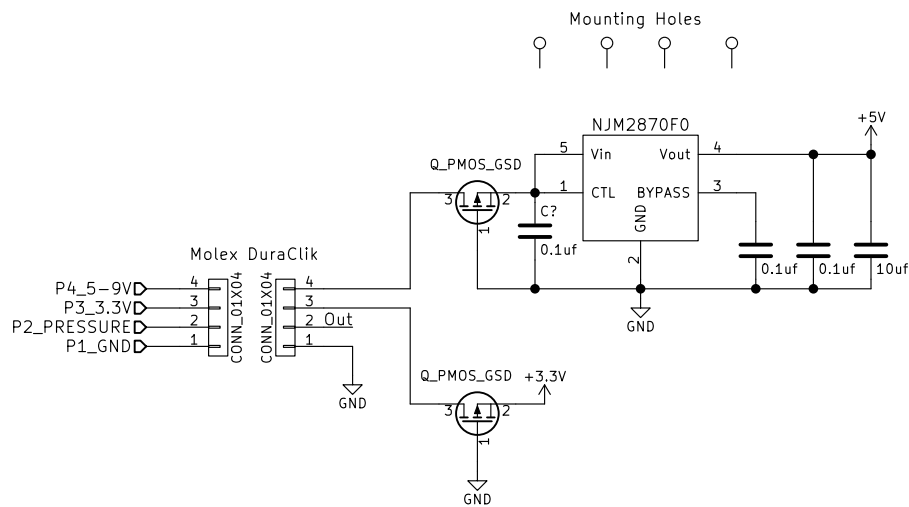
Id: 8/14



Comments:

Q1 and Q2 are reverse polarity protection transistors. They are P-Channel Mosfets, so they have a very small resistance when on. Care should be taken in their selection so that their V-GS threshold is under 1v

U2 is a 5v regulator for the 5v pressure transducer. The output of U3 goes through a selectable attenuator for a full 5v output or a 3.3v output.



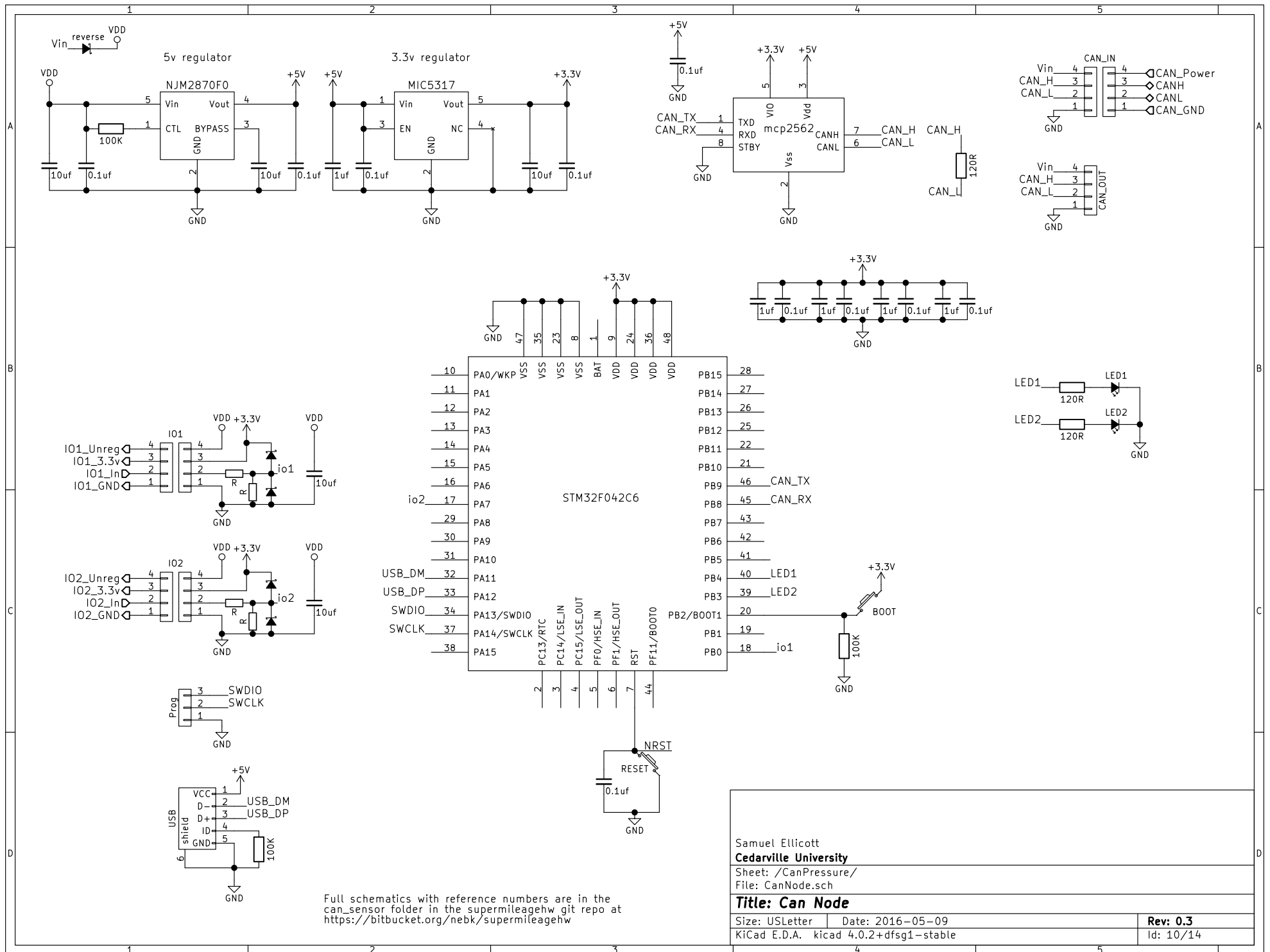
Full schematics with reference numbers are in the pressure\_sensor folder in the supermileagehw git repo at <https://bitbucket.org/nebk/supermileagehw>

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Cedarville University  
Sheet: /Pitot/  
File: Pressure.sch

**Title: Pressure Sensor**

Size: USLetter Date: 2016-10-20  
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Rev: 2  
Id: 9/14



Full schematics with reference numbers are in the can\_sensor folder in the supermileagehw git repo at <https://bitbucket.org/nebk/supermileagehw>

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Sheet: /CanPressure/  
File: CanNode.sch

**Title: Can Node**

Size: USLetter Date: 2016-05-09

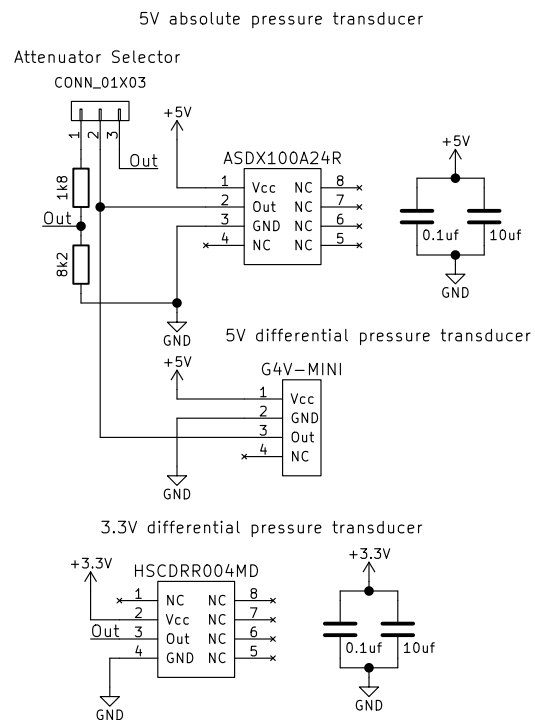
KiCad E.D.A. kicad 4.0.2+dfsg1-stable

**Rev: 0.3**

Id: 10/14

Q1 and Q2 are reverse polarity protection transistors. They are P-Channel Mosfets, so they have a very small resistance when on. Care should be taken in their selection so that their V-GS threshold is under 1v

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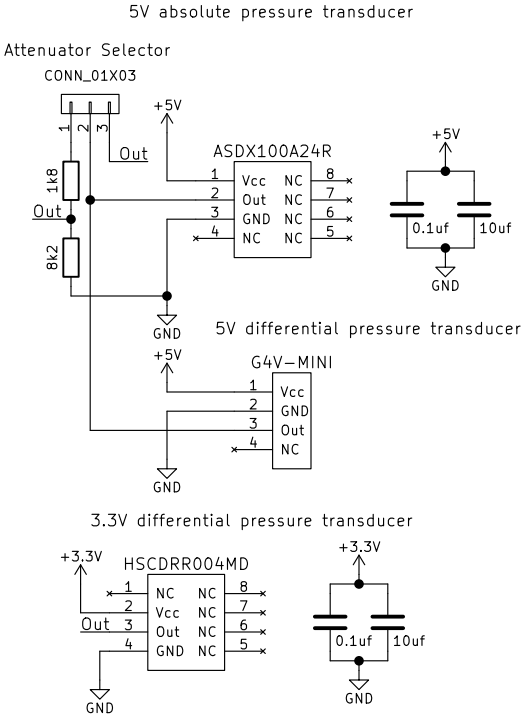
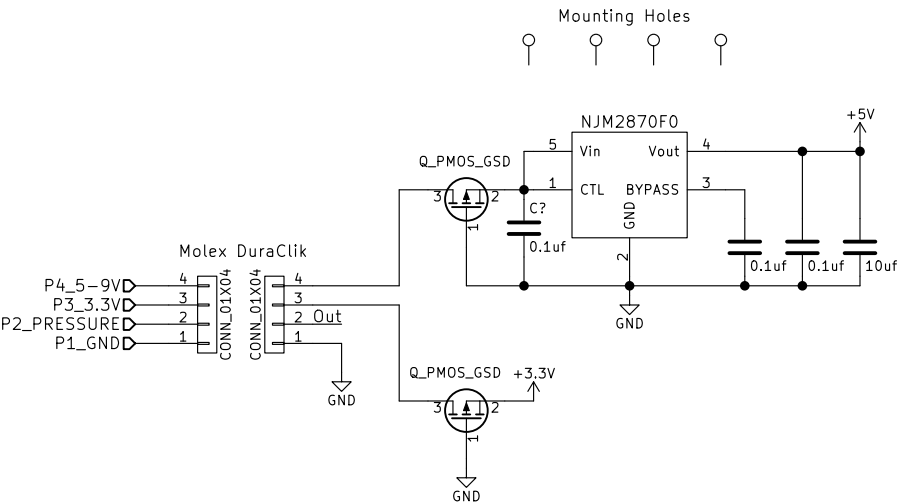


Rev: 2
Id: 11/14

Comments:

Q1 and Q2 are reverse polarity protection transistors. They are P-Channel Mosfets, so they have a very small resistance when on. Care should be taken in their selection so that their V-GS threshold is under 1v

U2 is a 5v regulator for the 5v pressure transducer. The output of U3 goes through a selectable attenuator for a full 5v output or a 3.3v output.



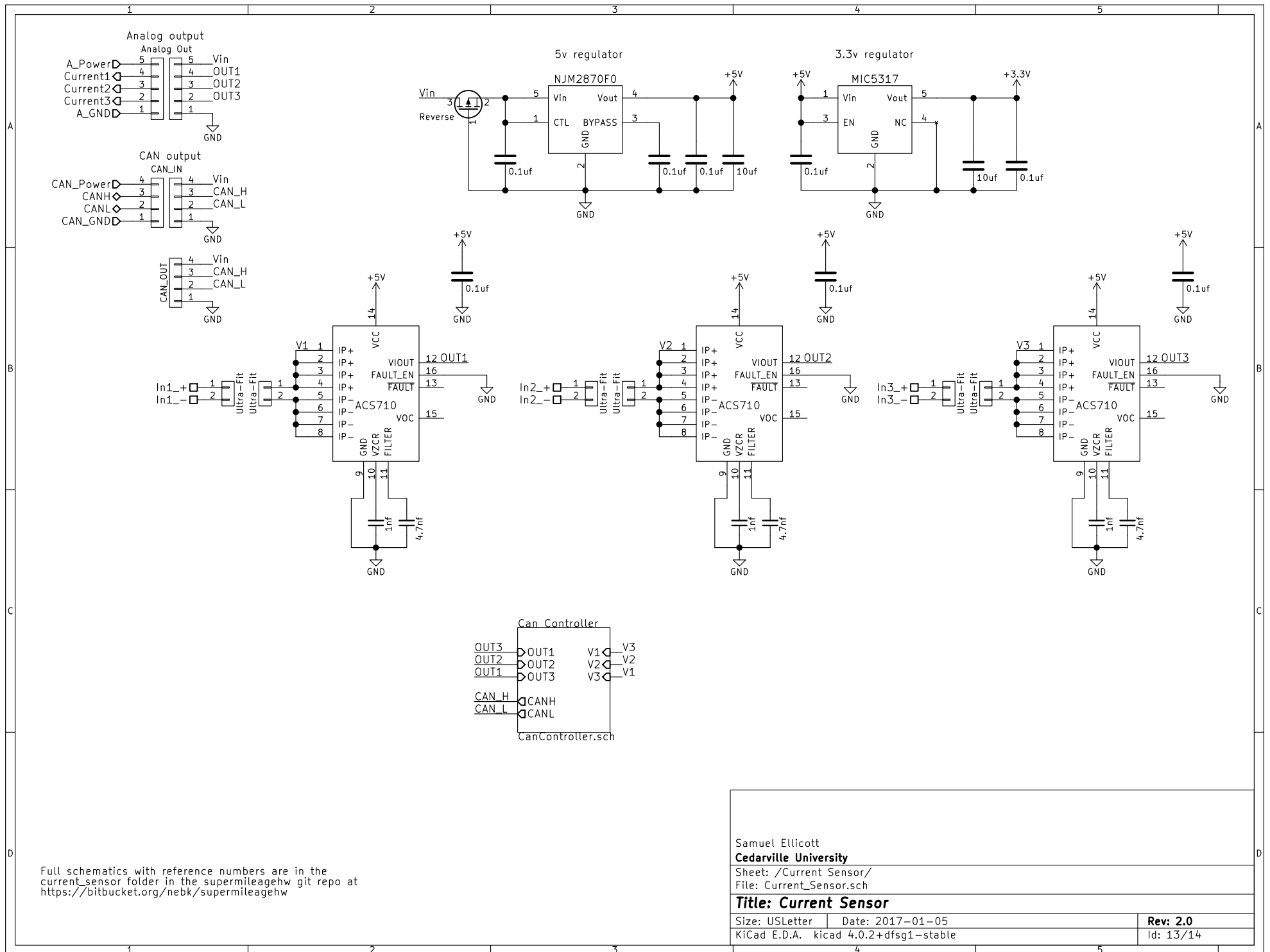
Full schematics with reference numbers are in the pressure\_sensor folder in the supermileagehw git repo at <https://bitbucket.org/nebk/supermileagehw>

Sam Ellicott  
Cedarville University  
Sheet: /LowP\_EFI/  
File: Pressure.sch

Title: Pressure Sensor

Size: USLetter Date: 2016-10-20  
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Rev: 2  
Id: 12/14



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Cedarville University

Sheet: /Current Sensor/  
File: Current\_Sensor.sch

**Title: Current Sensor**

Size: USLetter Date: 2017-01-05  
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**Rev: 2.0**  
Id: 13/14

