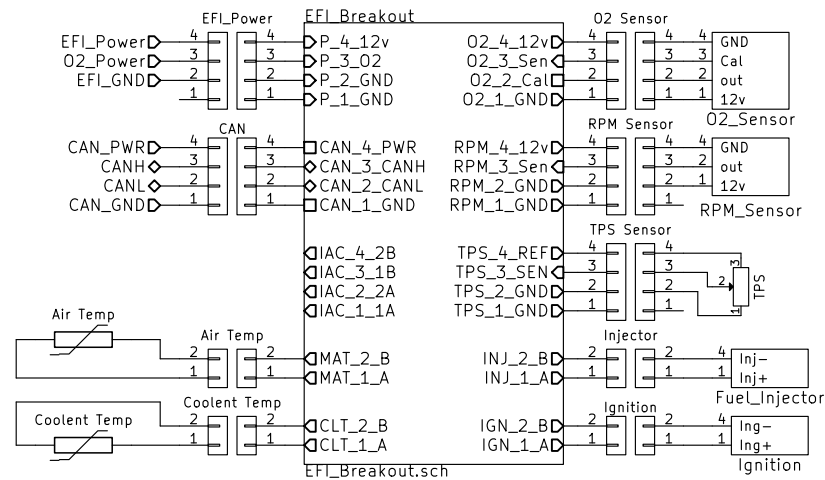
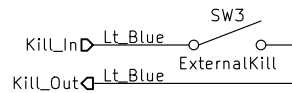
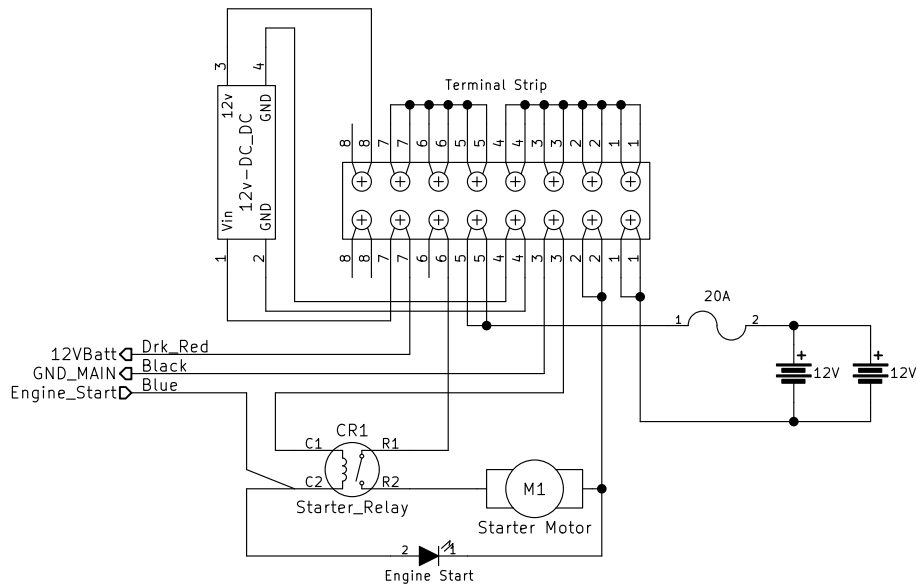


Eric Conley
 Edited by Samuel Ellicott
Cedarville University
 Sheet: /Steering_Wheel/
 File: Steering_Wheel.sch

Title: Sting – Gasoline Prototype

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

Rev: 1.2
 Id: 2/14



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

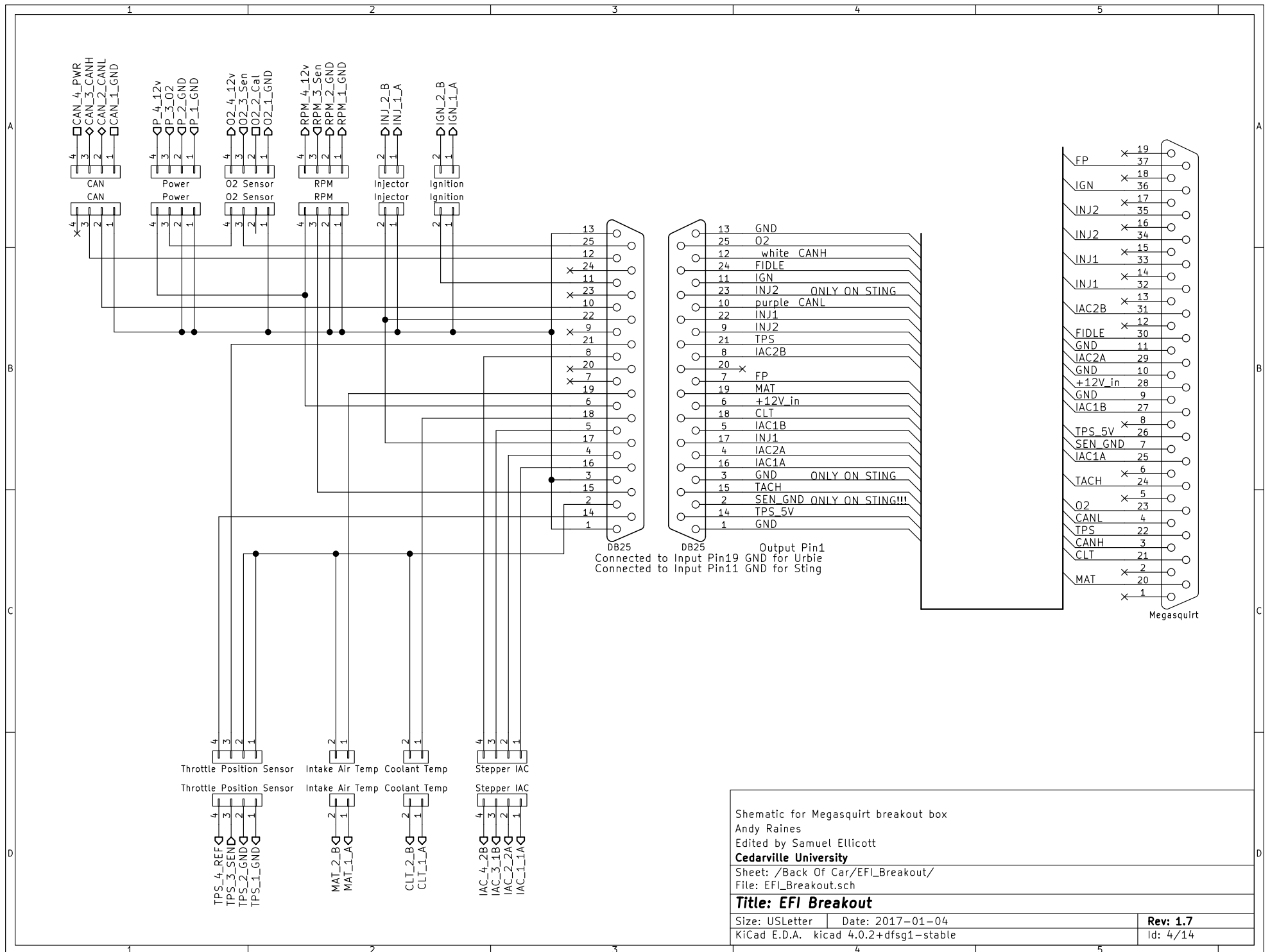
Size: USLetter

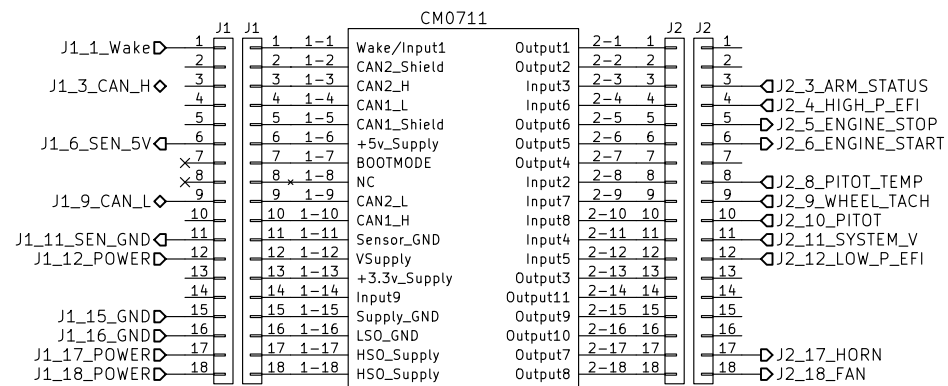
Date: 2017-01-02

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

Rev: 1.2

Id: 3/14





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

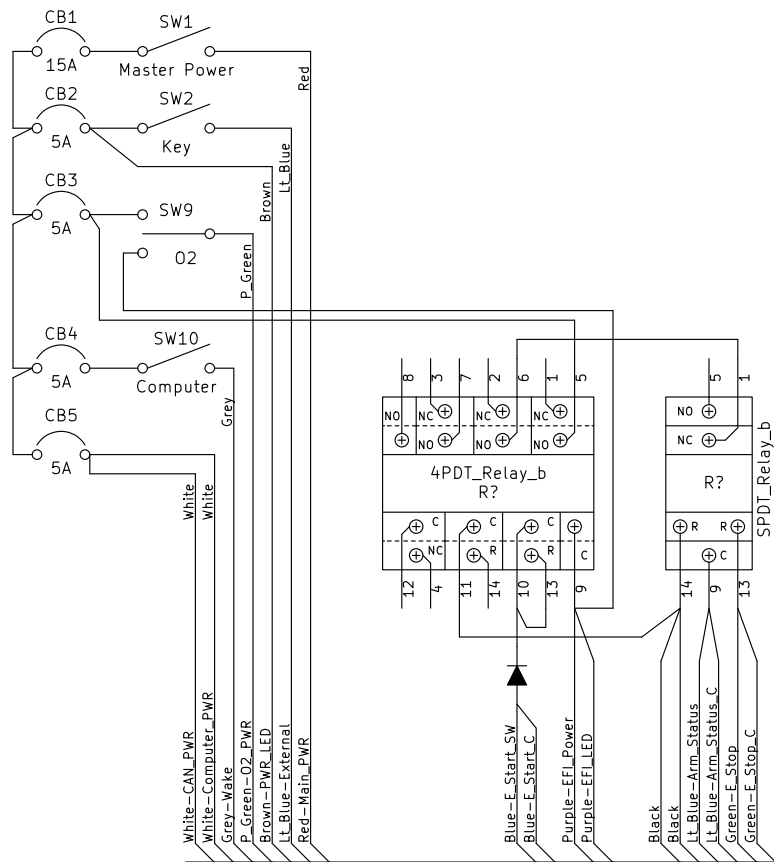
Title: Sting – Gasoline Prototype

Size: USLetter Date: 2017-01-01

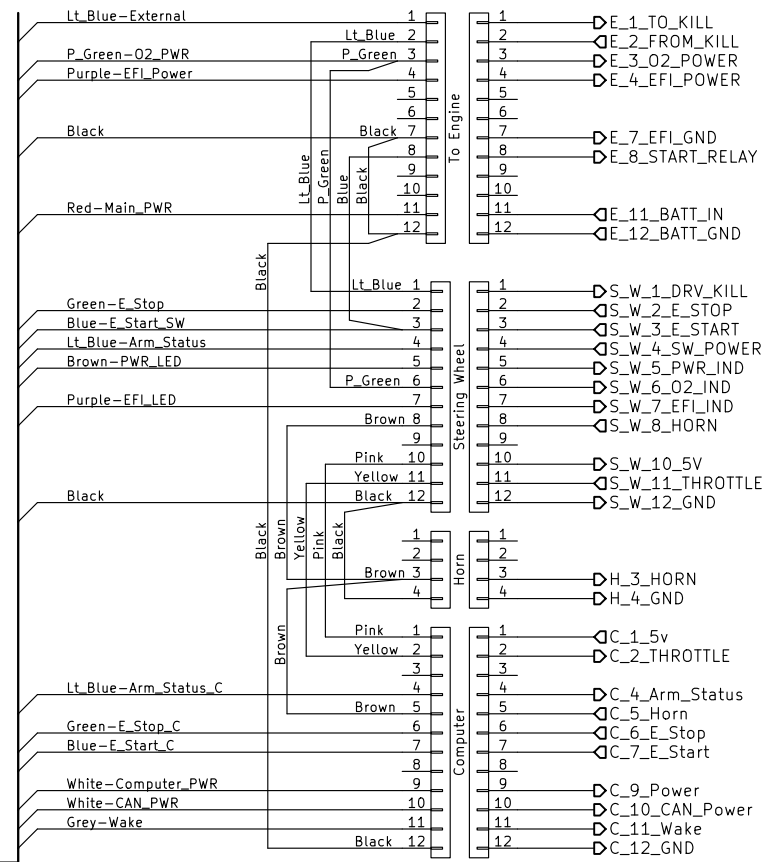
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Rev: 1.0

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

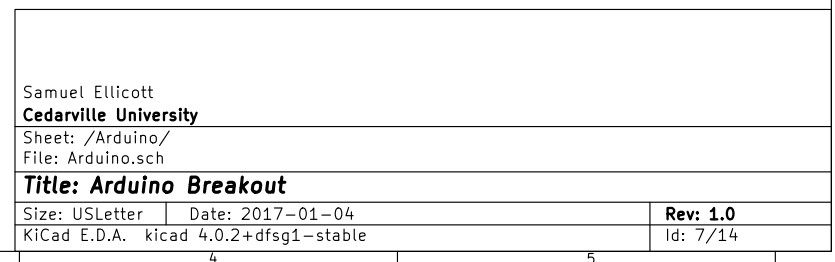
Title: Sting – Gasoline Prototype

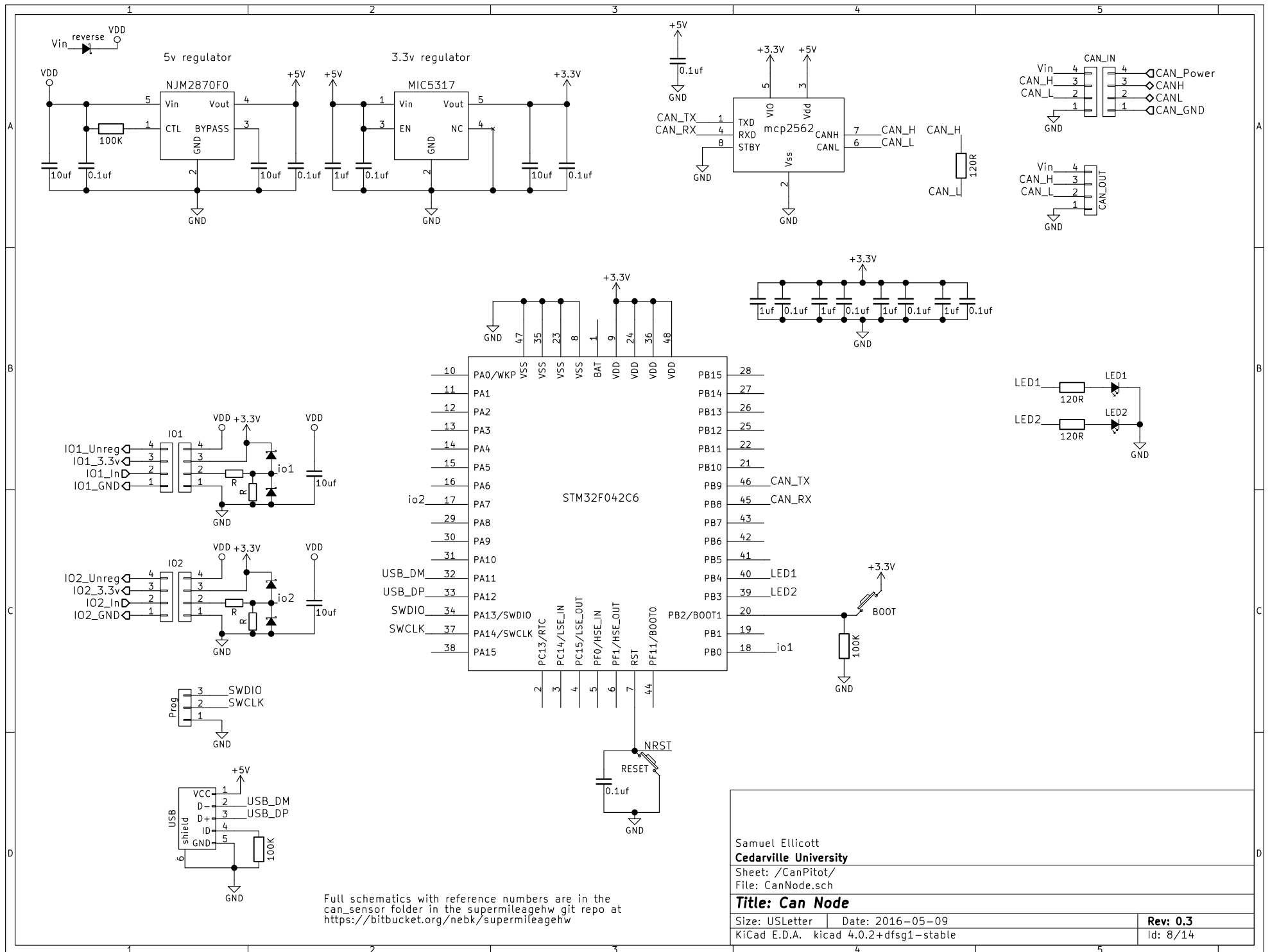
Size: USLetter Date: 2017-01-04

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

Rev: 1.6

Id: 6/14

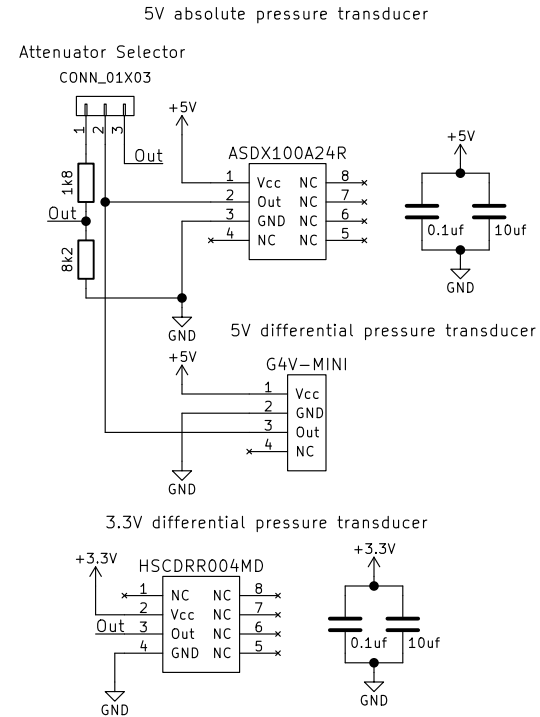
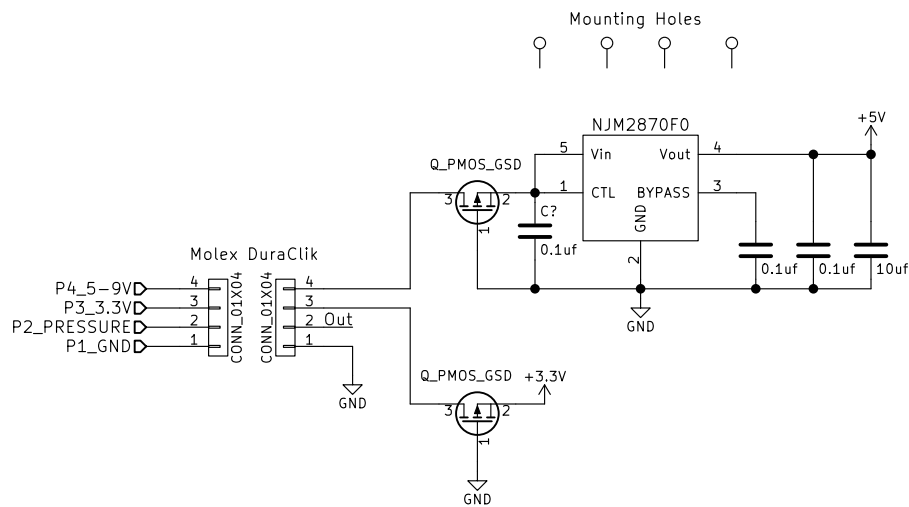




Comments:

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.



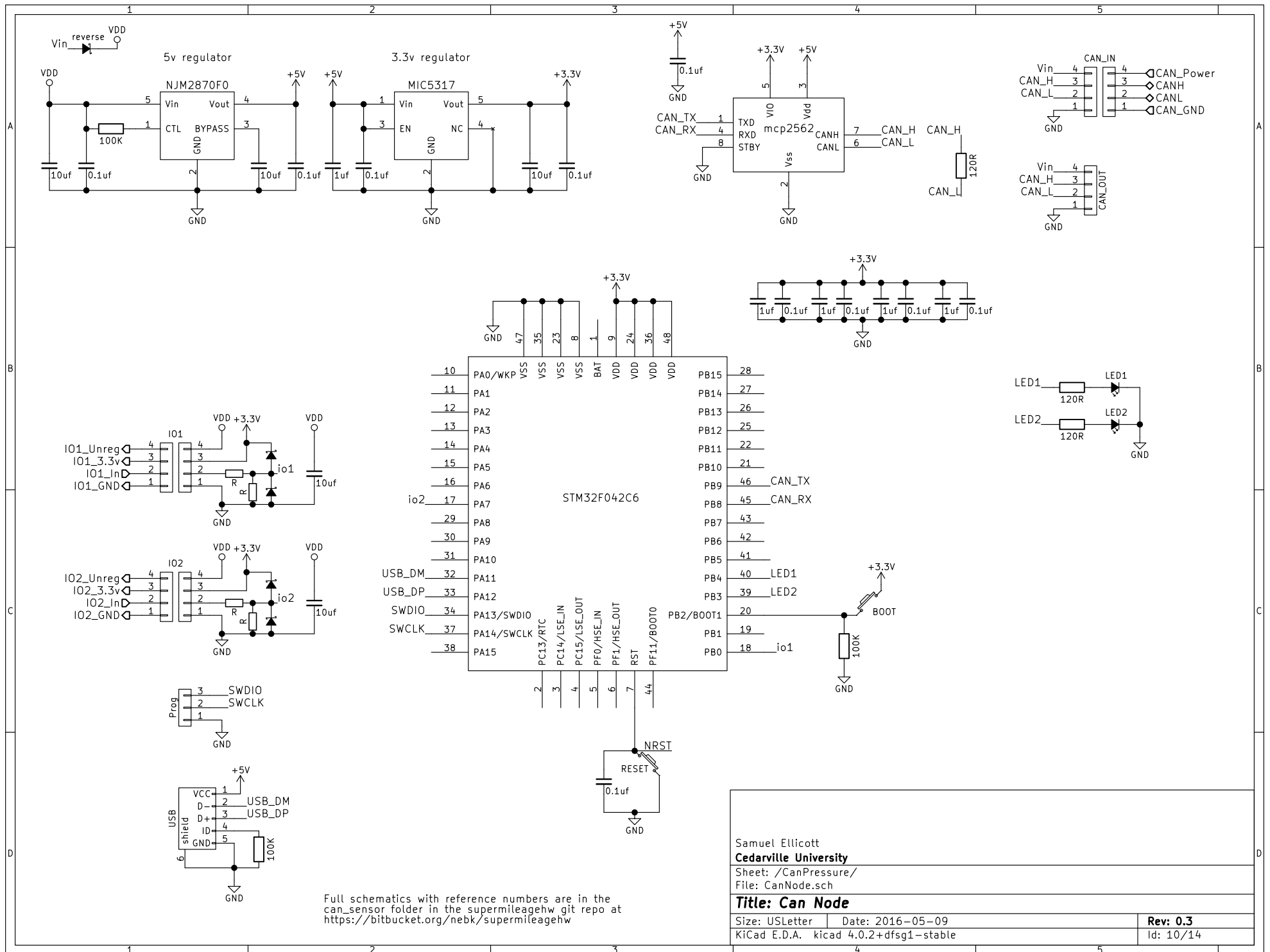
Full schematics with reference numbers are in the pressure_sensor folder in the supermileagehw git repo at <https://bitbucket.org/nebk/supermileagehw>

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

Title: Pressure Sensor

Size: USLetter Date: 2016-10-20
KiCad E.D.A. kicad 4.0.2+dfsg1-stable

Rev: 2
Id: 9/14



Samuel Ellicott
Cedarville University

Sheet: /CanPressure/
File: CanNode.sch

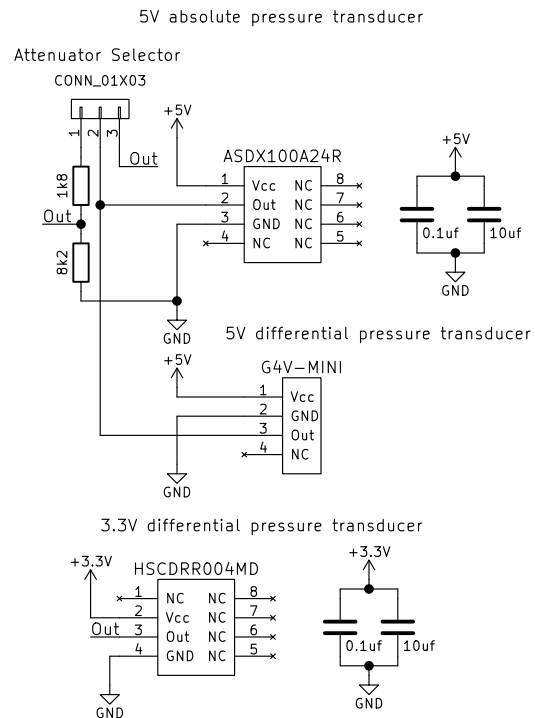
Title: Can Node

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

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

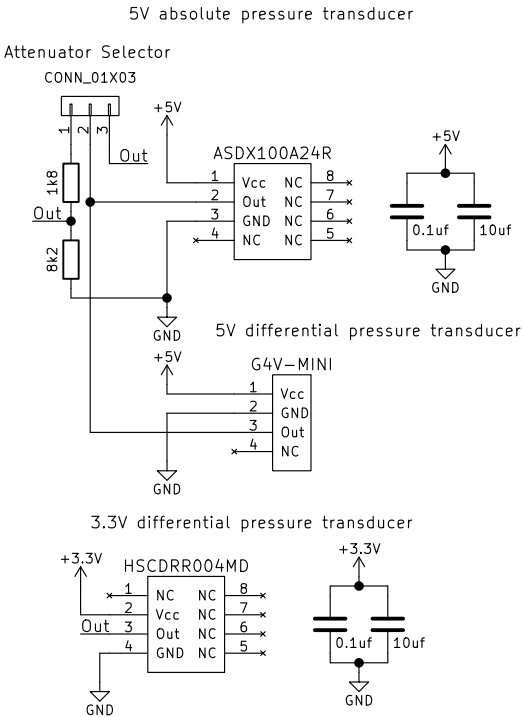
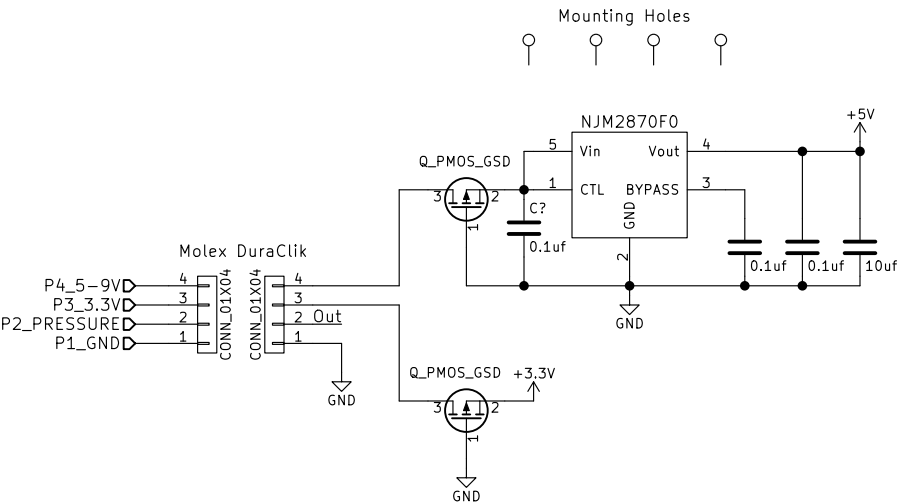


| |
|-----------|
| Rev: 2 |
| Id: 11/14 |

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

Rev: 2
Id: 12/14

