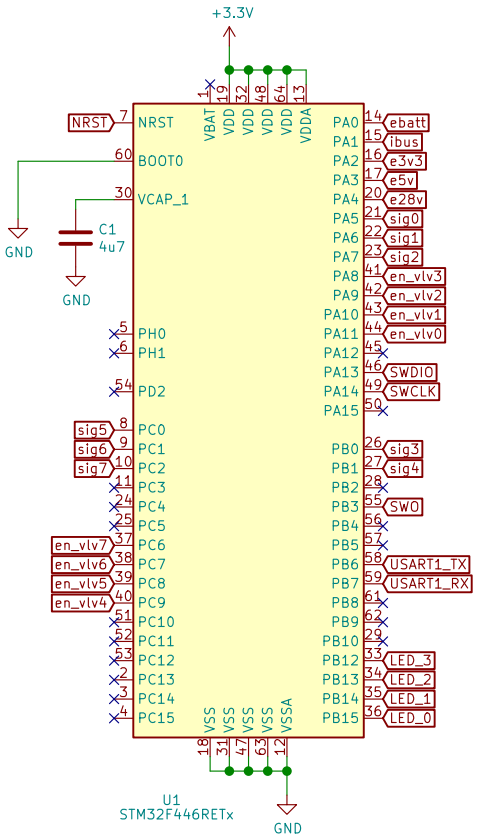
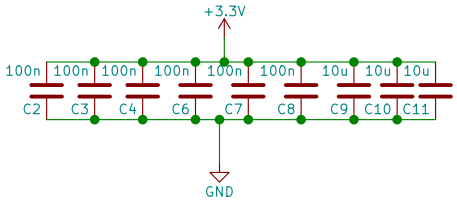
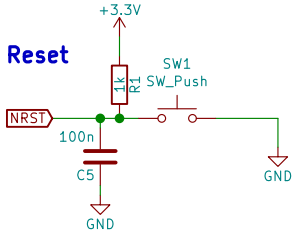
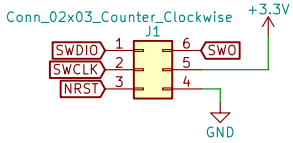








power

power.sch

comms

comms.sch

valves

valves.sch

misc

misc.sch

daughter_connectors

daughter_connectors.sch

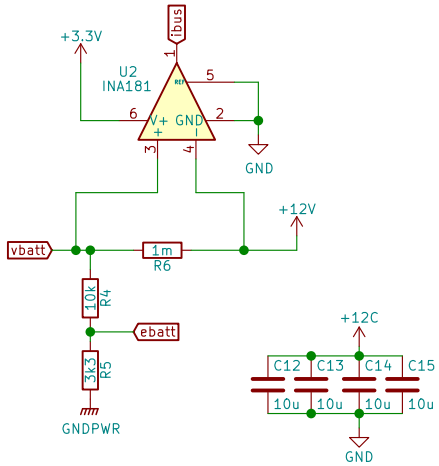
Alex Davenport
MASA

Sheet: /
File: prop_support.sch

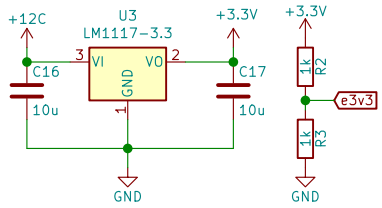
Title: Prop Support Board

Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 1/14

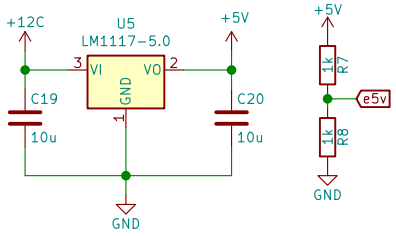
Bus Telemetry



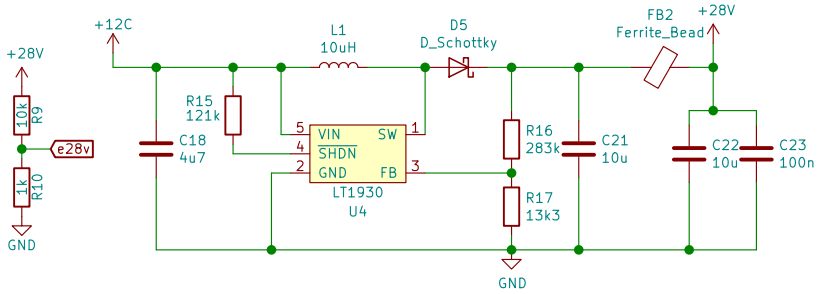
3.3V Linear Regulator

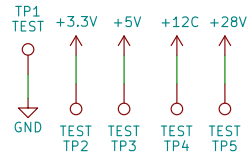


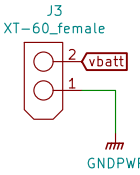
5V Linear Regulator

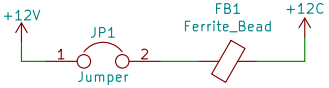


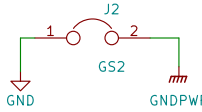
28V Boost Converter

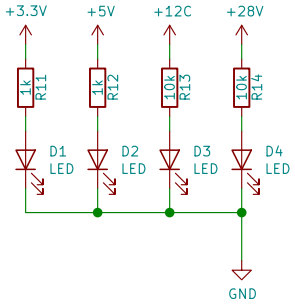


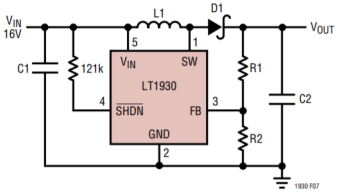












SETTING OUTPUT VOLTAGE

To set the output voltage, select the values of R1 and R2 (see Figure 1) according to the following equation.

$$R1 = R2\left(\frac{V_{OUT}}{1.255V} - 1\right)$$

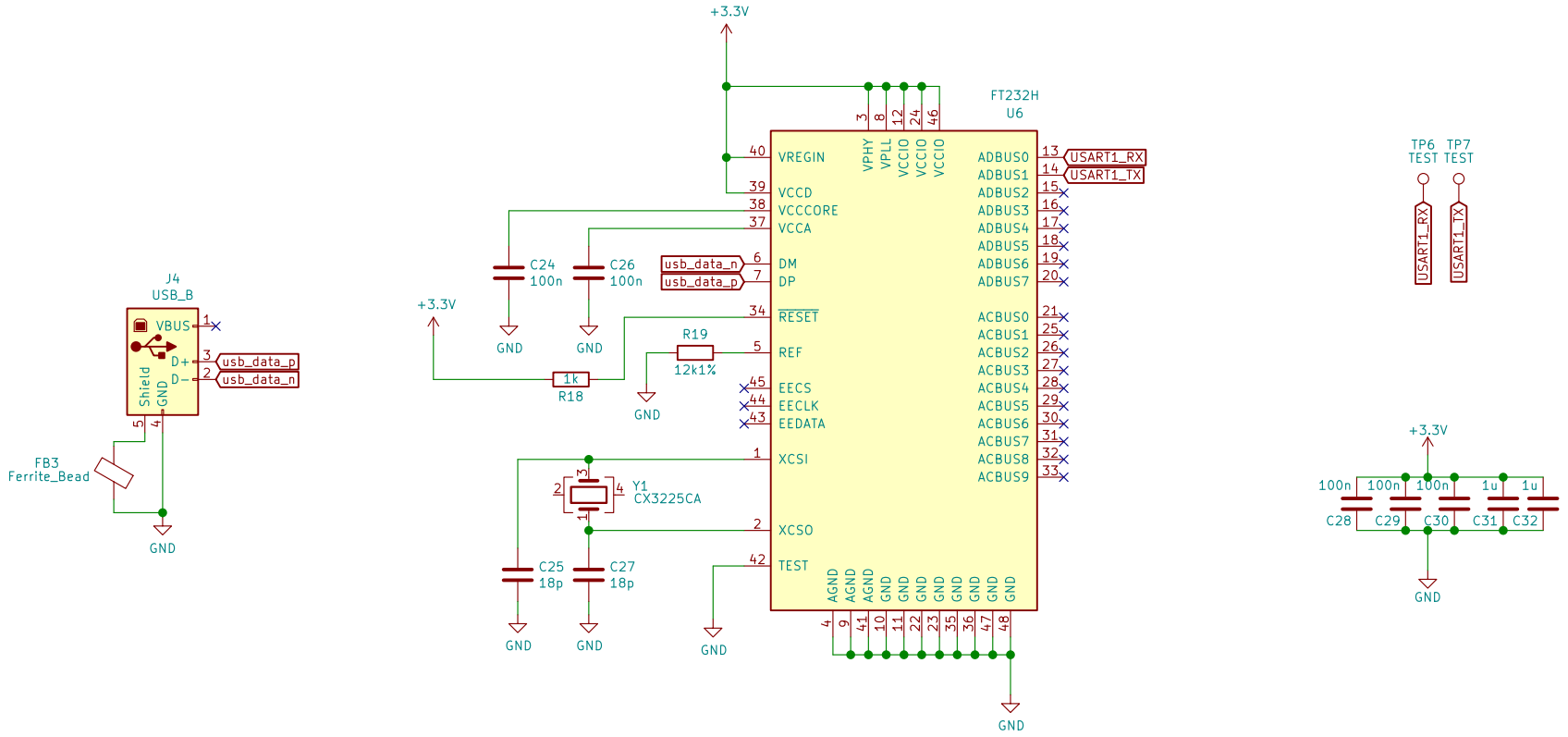
A good value for R2 is 13.3k which sets the current in the resistor divider chain to 1.255V/13.3k = 94.7µA.

Alex Davenport
MASA

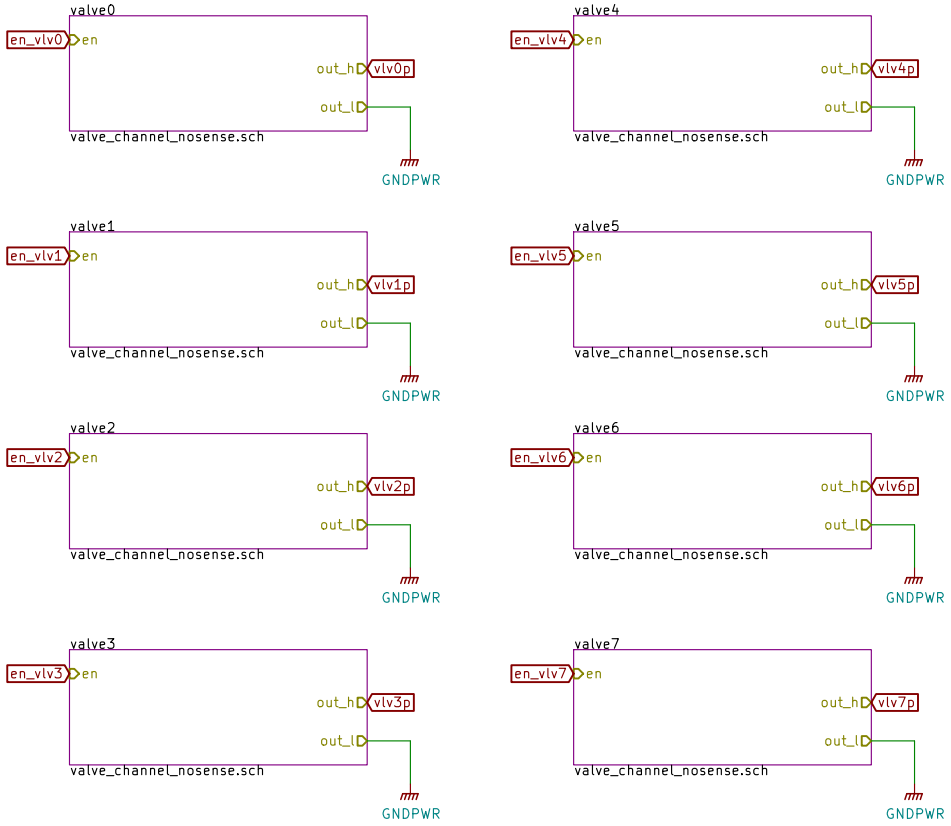
Sheet: /power/
File: power.sch

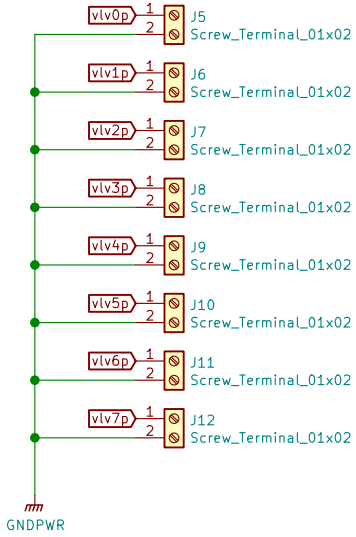
Title: Prop Support Board

Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 2/14



Alex Davenport		
MASA		
Sheet: /comms/		
File: comms.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 3/14



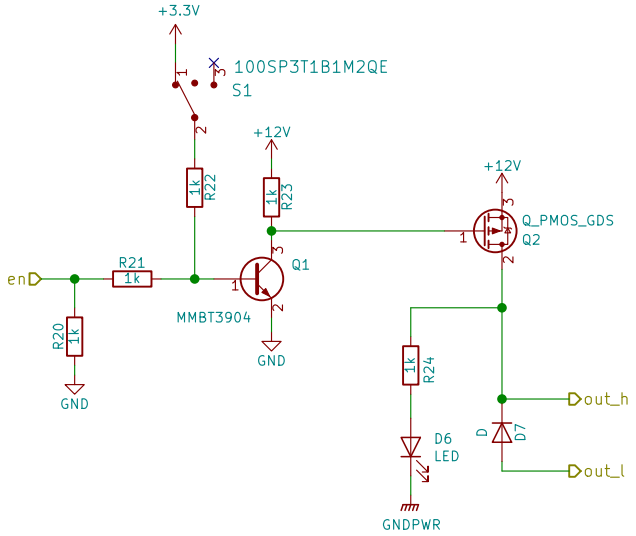


Alex Davenport
MASA

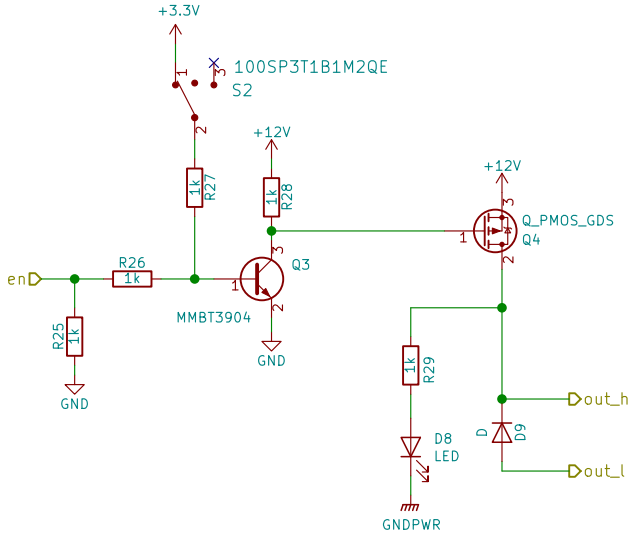
Sheet: /valves/
File: valves.sch

Title: Prop Support Board

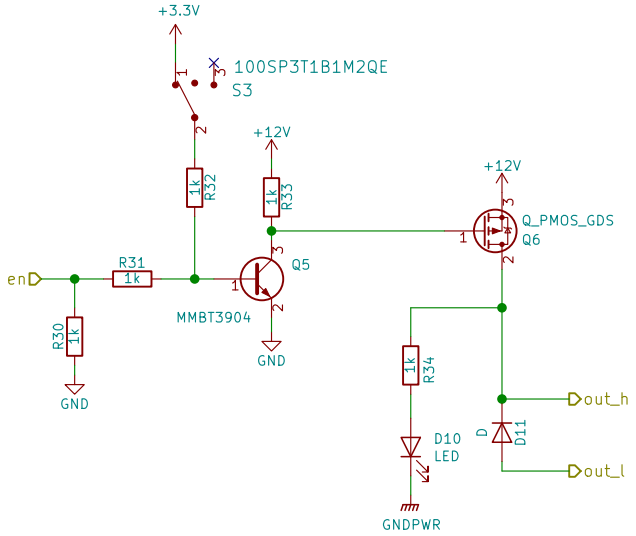
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 4/14



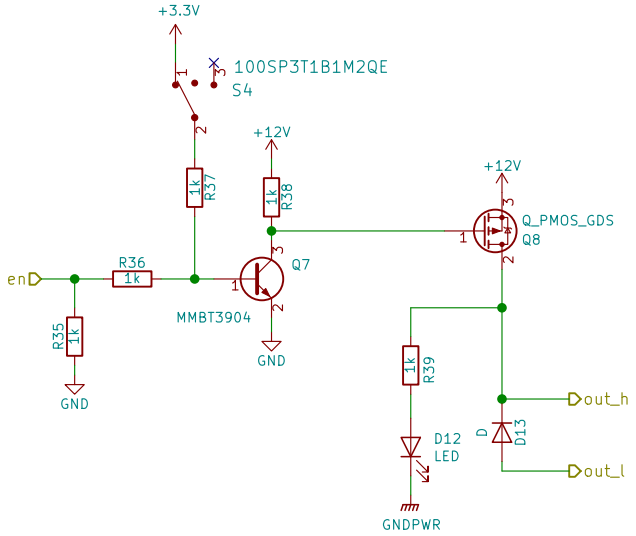
Alex Davenport **MASA**		
Sheet: /valves/valve0/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 5/14



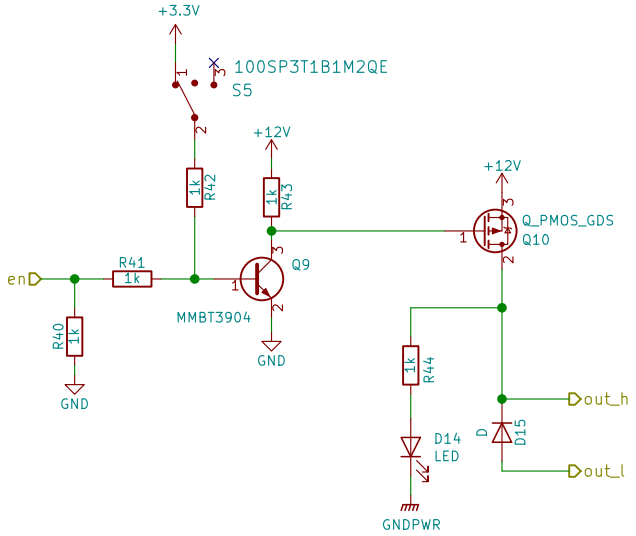
Alex Davenport **MASA**		
Sheet: /valves/valve1/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 6/14



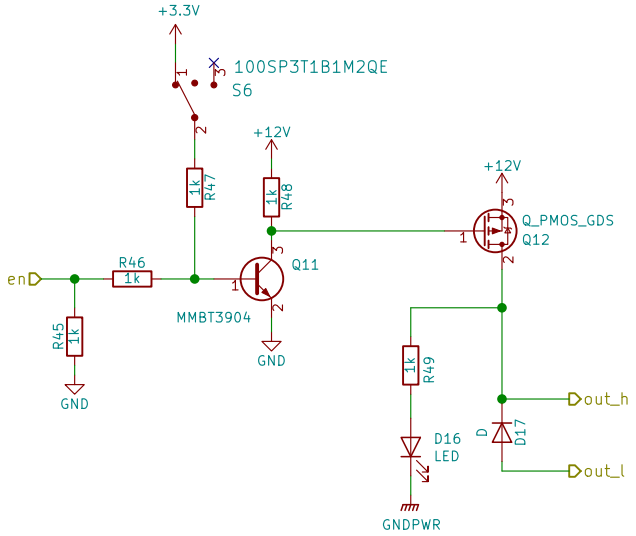
Alex Davenport **MASA**		
Sheet: /valves/valve2/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 7/14



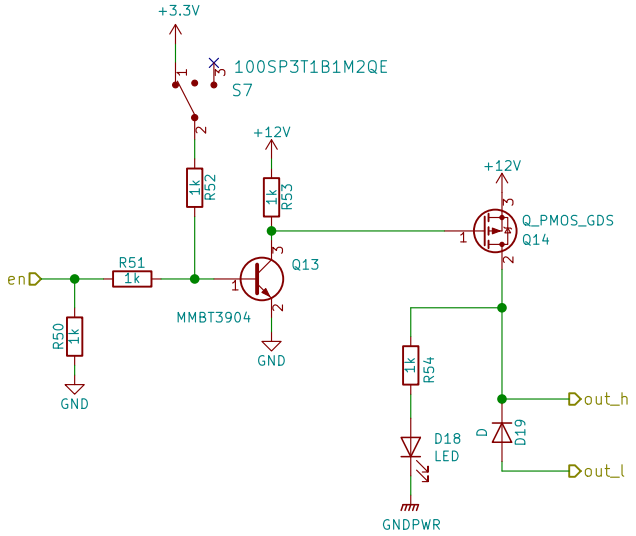
Alex Davenport **MASA**		
Sheet: /valves/valve3/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 8/14



Alex Davenport **MASA**		
Sheet: /valves/valve4/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 9/14



Alex Davenport **MASA**		
Sheet: /valves/valve5/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 10/14

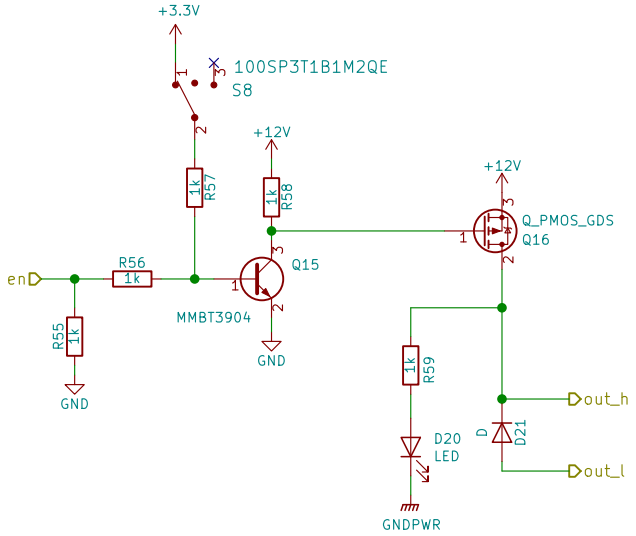


Alex Davenport
MASA

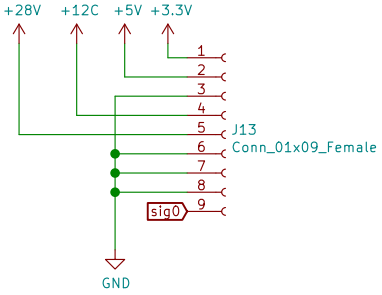
Sheet: /valves/valve6/
File: valve_channel_nosense.sch

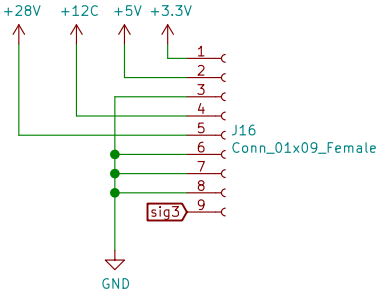
Title: Prop Support Board

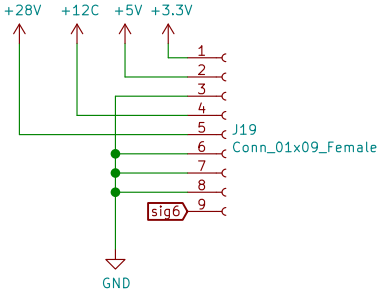
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 11/14

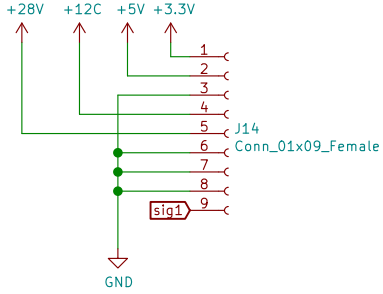


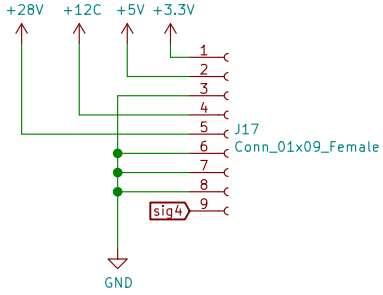
Alex Davenport **MASA**		
Sheet: /valves/valve7/ File: valve_channel_nosense.sch		
Title: Prop Support Board		
Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 12/14

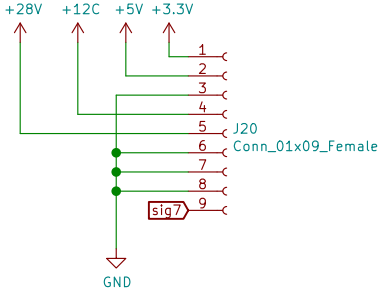


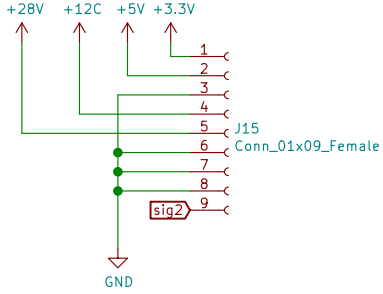


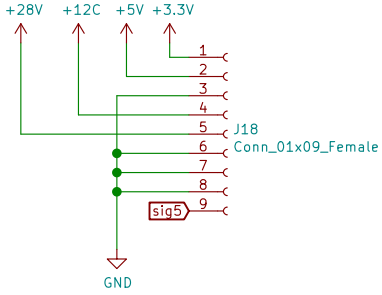










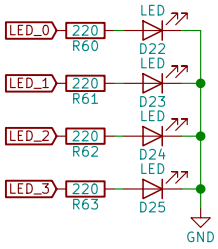


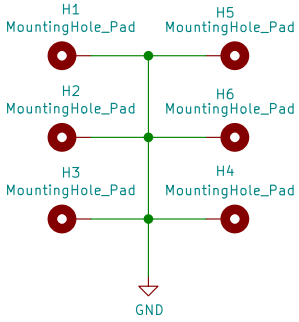
Alex Davenport
MASA

Sheet: /daughter_connectors/
File: daughter_connectors.sch

Title: Prop Support Board

Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 13/14



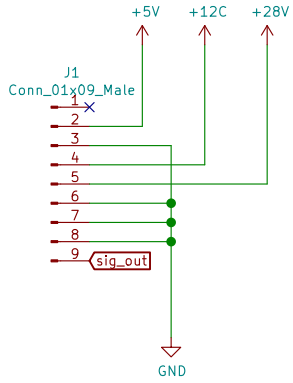


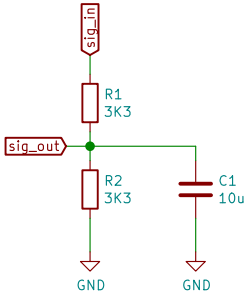
Alex Davenport
MASA

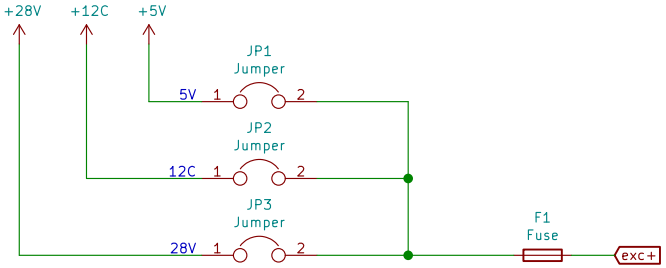
Sheet: /misc/
File: misc.sch

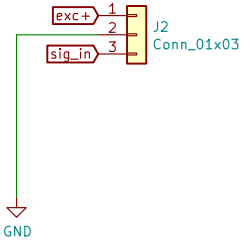
Title: Prop Support Board

Size: A4	Date: 2019-03-27	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 14/14







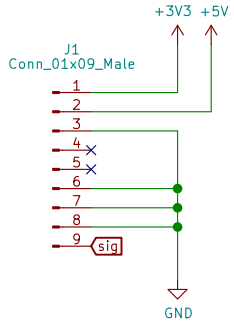


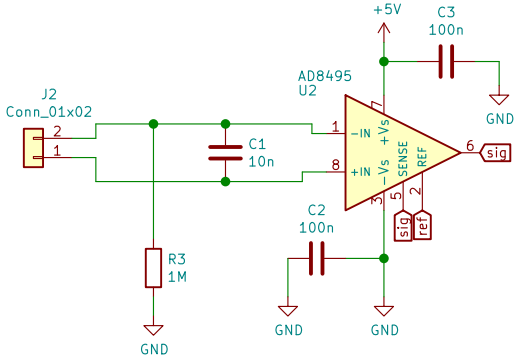
Alex Davenport
MASA

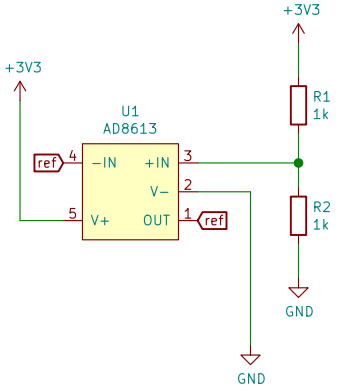
Sheet: /
File: 3wireducer_daughter.sch

Title: 3-Wire Ducer Daughter Board

Size: A4	Date: 2019-04-04	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 1/1





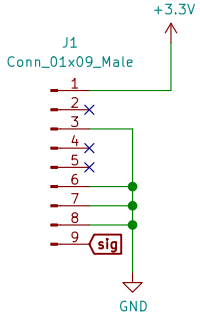


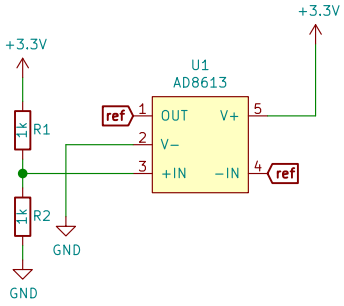
Alex Davenport
MASA

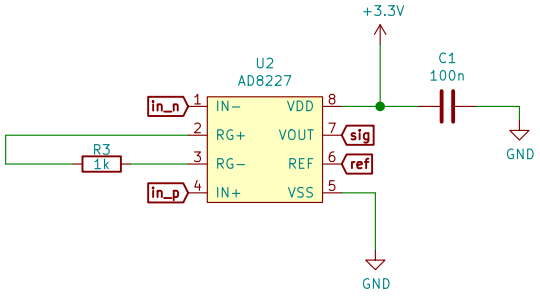
Sheet: /
File: thermocouple_daughter.sch

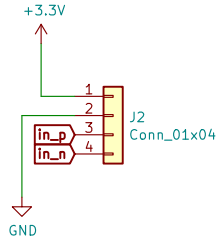
Title: T−Type Thermocouple Daughter Board

Size: A4	Date: 2019−04−04	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)−1		Id: 1/1









Alex Davenport
MASA

Sheet: /
File: loadcell_daughter.sch

Title: Load Cell Daughter Board

Size: A4	Date: 2019-04-04	**Rev: A**
KiCad E.D.A. eeschema (5.1.0)-1		Id: 1/1