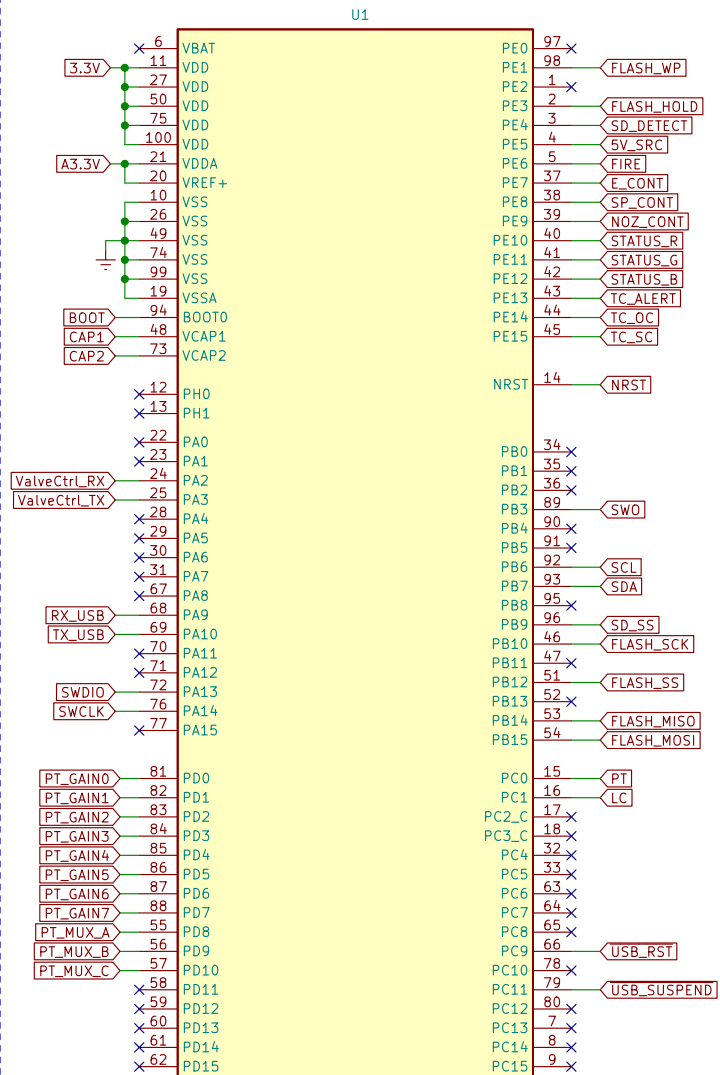
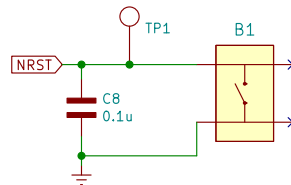


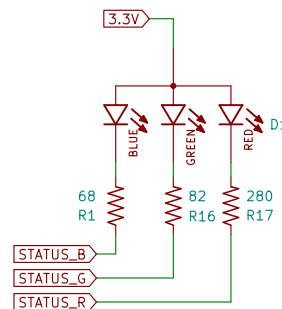
## Microcontroller



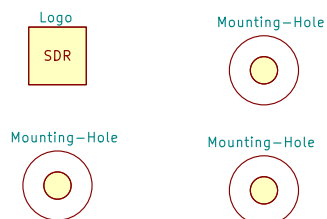
## MCU Reset



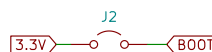
## Firmware Status LED



## Miscellaneous



## Boot Setting



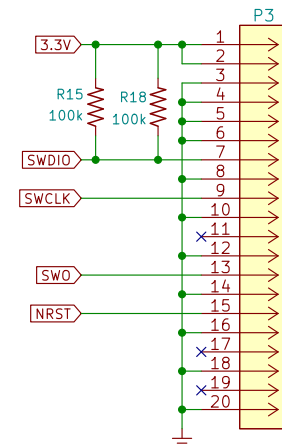
## Power

File: power.kicad\_sch

## Sensors

File: Sensors.kicad\_sch

## SWD Programmer



## Flash

## USB

## SD Card

## Ignition

## Valve Controller

Author: Colton Acosta  
Sun Devil Rocketry

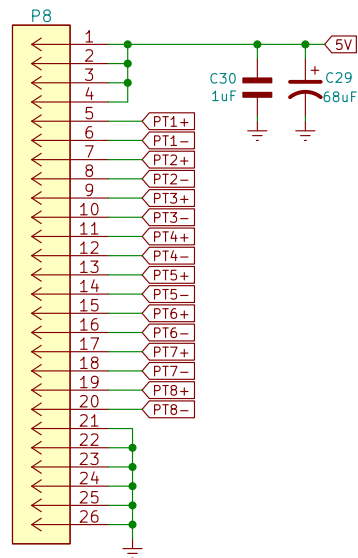
Sheet: /  
File: Engine-Controller.kicad\_sch

**Title: Engine Controller Microcontroller Board**

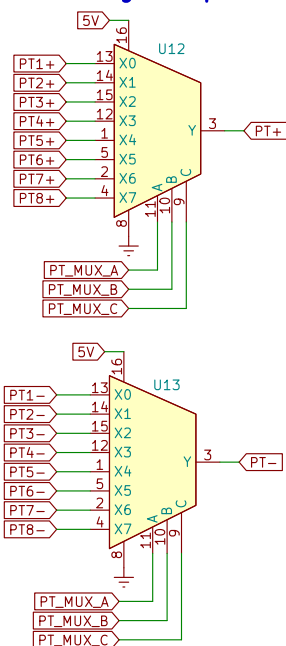
Size: A4 Date: 2021-06-26  
KiCad E.D.A. kicad (6.0.5)

Rev: 1.0  
Id: 1/4

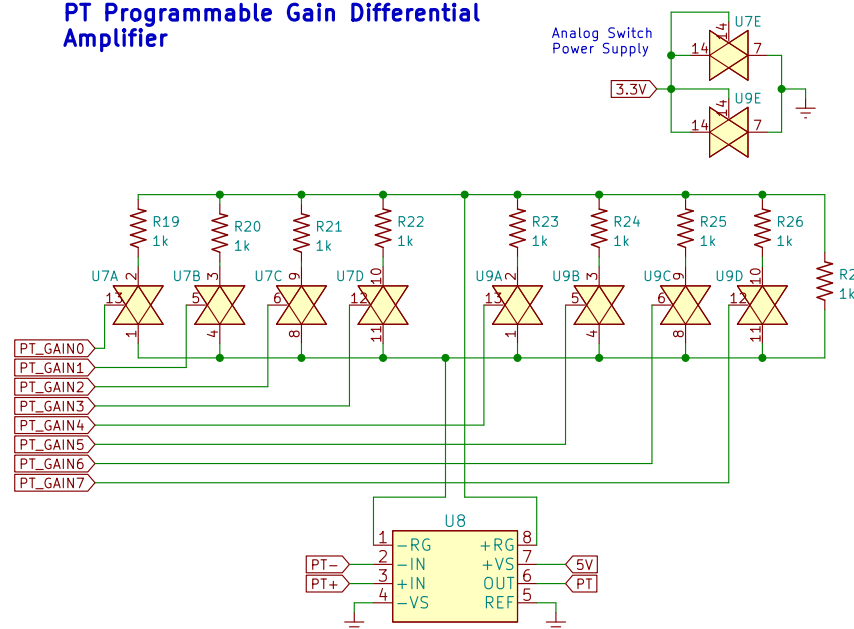
## Pressure Transducer Connectors



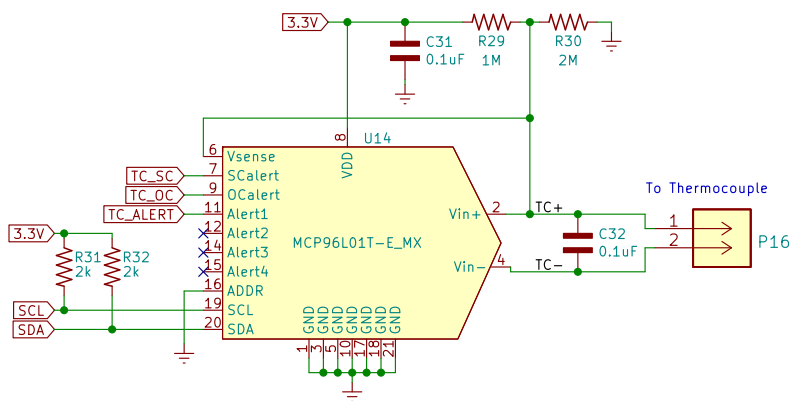
## PT Analog Multiplexers



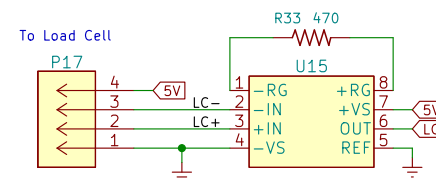
## PT Programmable Gain Differential Amplifier



## Thermocouple Cold Junction Compensation



## Load Cell Amplifier



Sheet: /Sensors/  
File: Sensors.kicad\_sch

**Title:**

Size: A4

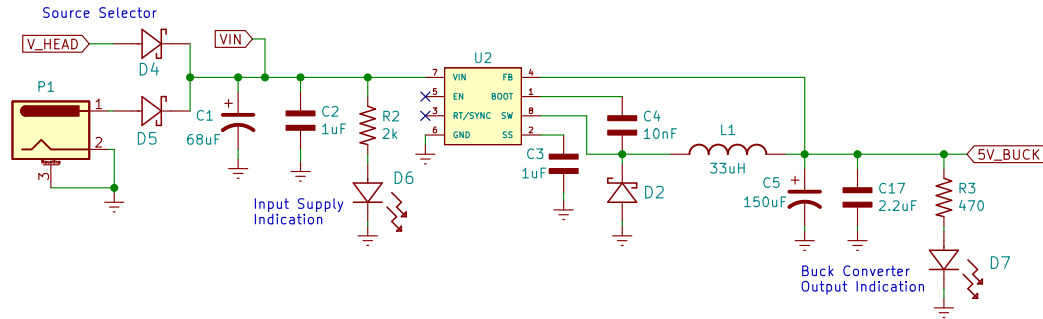
Date:

KiCad E.D.A. kicad (6.0.5)

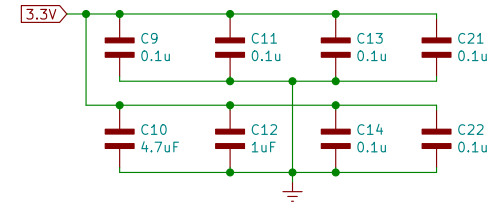
**Rev:**

Id: 4/4

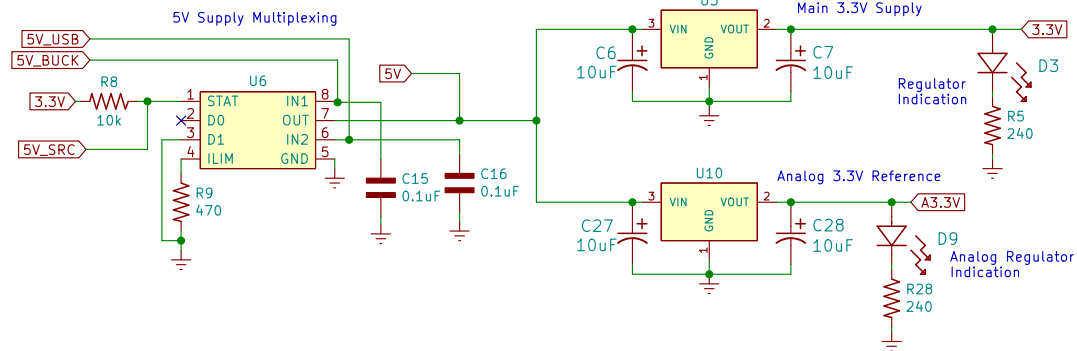
### 5V Buck Converter



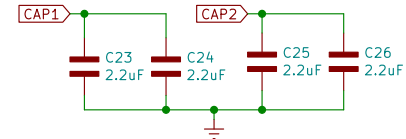
### Microcontroller Decoupling Caps



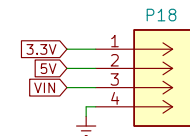
### 3.3V Supply



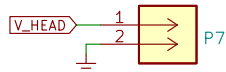
### MCU Internal Regulator Caps



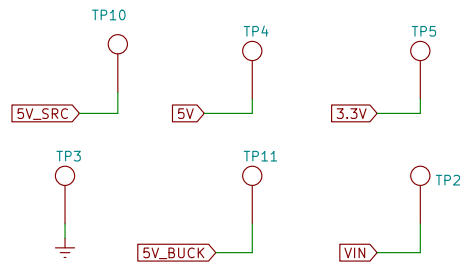
### Power Pin Header



### Power Connector



### Test Points



Author: Colton Acosta  
Sun Devil Rocketry

Sheet: /Power/  
File: power.kicad\_sch

**Title: Engine Microcontroller Power Supply**

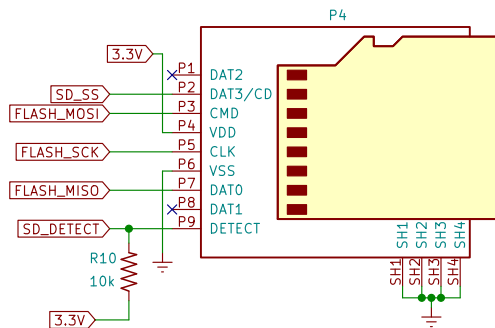
Size: A4  
KiCad E.D.A. kicad (6.0.5)

Date:

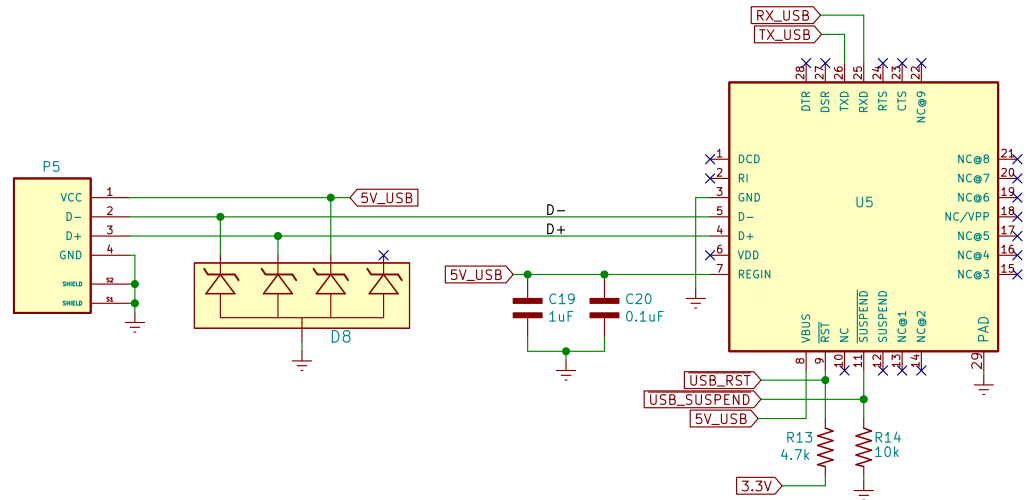
Rev: 1.0

Id: 6/4

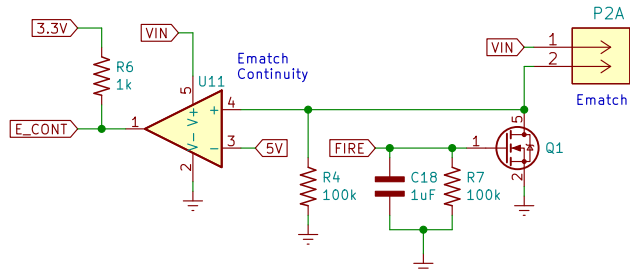
## SD Card



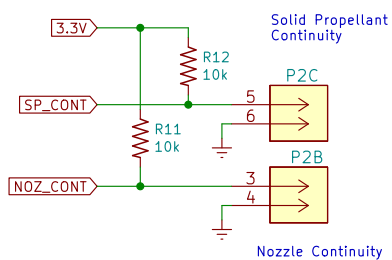
## USB Transceiver



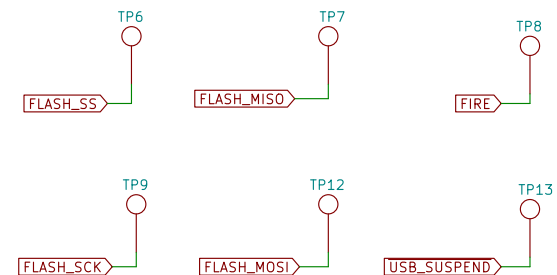
## Ignition



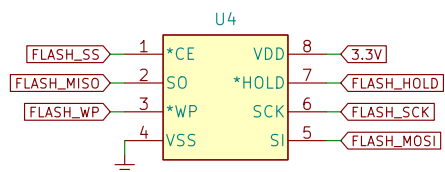
## Ignition Continuity



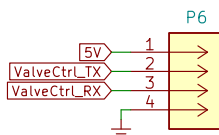
## Test Points



## Flash



## Valve Controller Serial Interface



Sheet: /Page2/  
File: Page2.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.5)

Date:

**Rev:**  
Id: 6/4