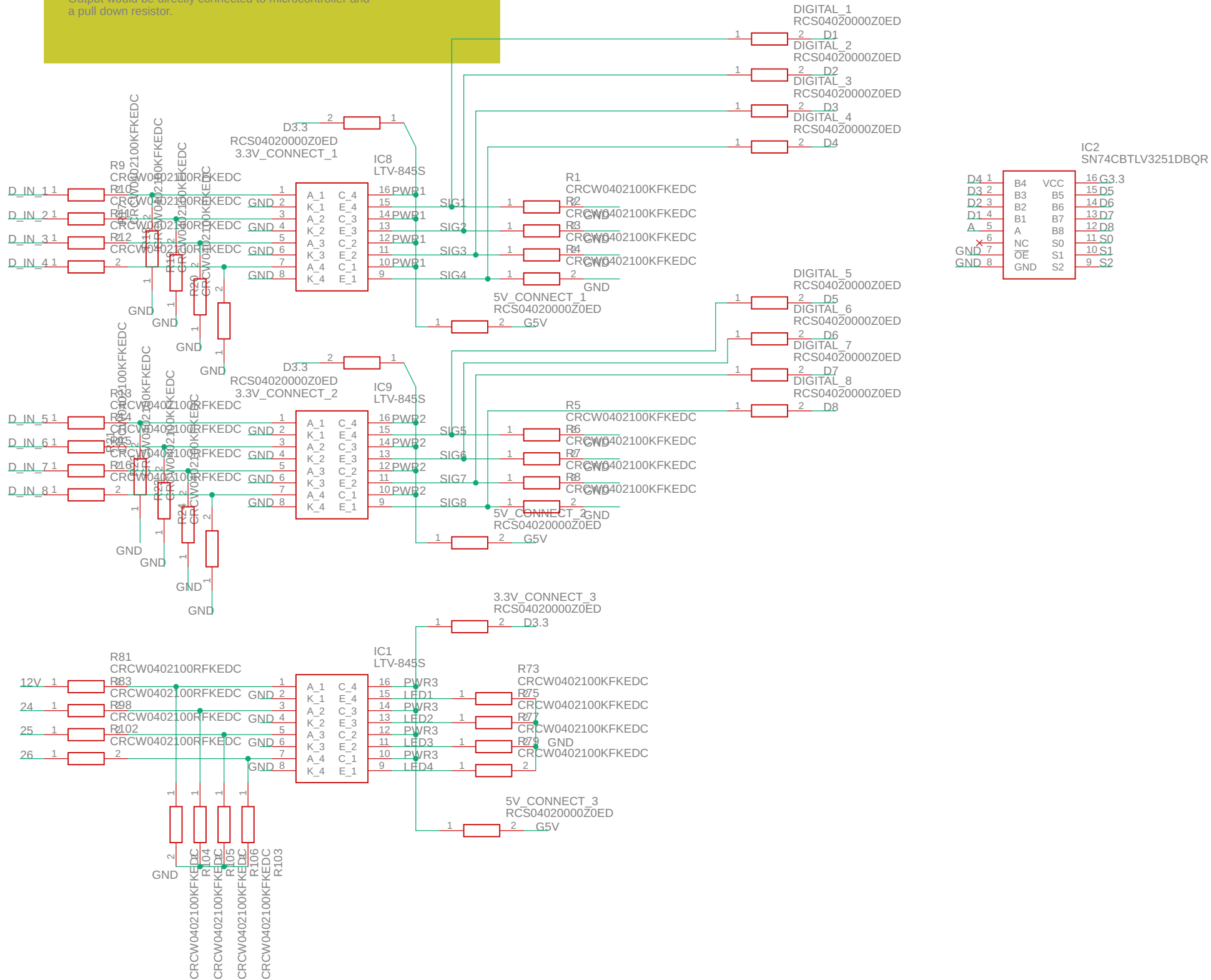
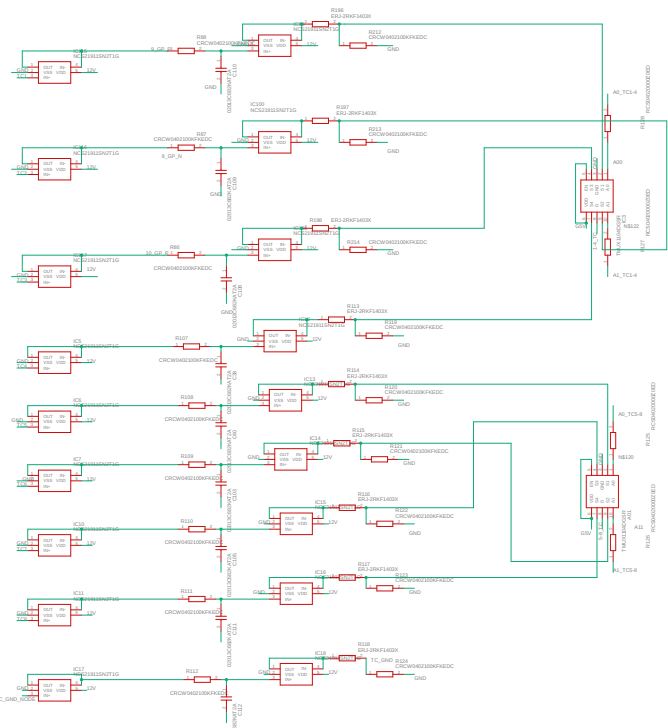
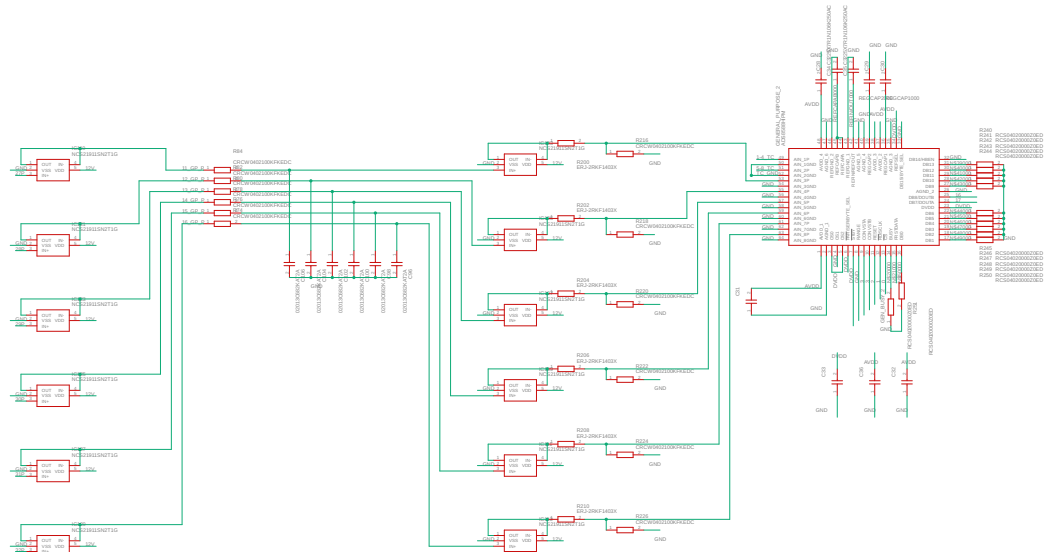
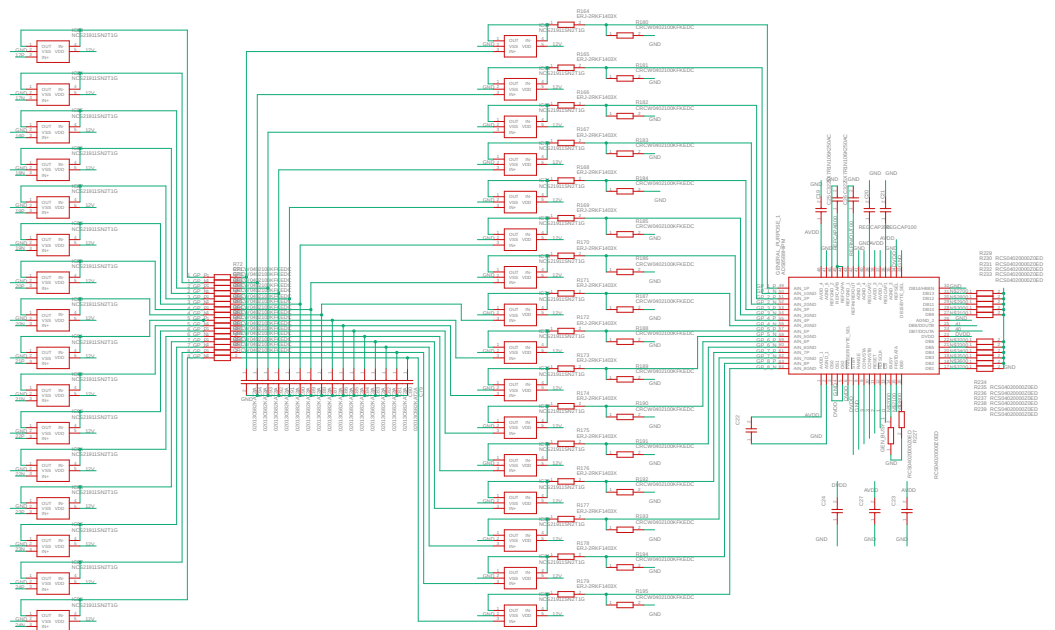


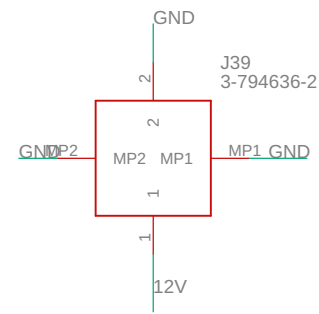
This section is for taking in any digital input voltage from hall effects, status indicators or any sensor with spurious outputs that are not communication based.

Input to opto isolator has an inline resistor for current limiting and a pull down resistor.

Output would be directly connected to microcontroller and a pull down resistor.

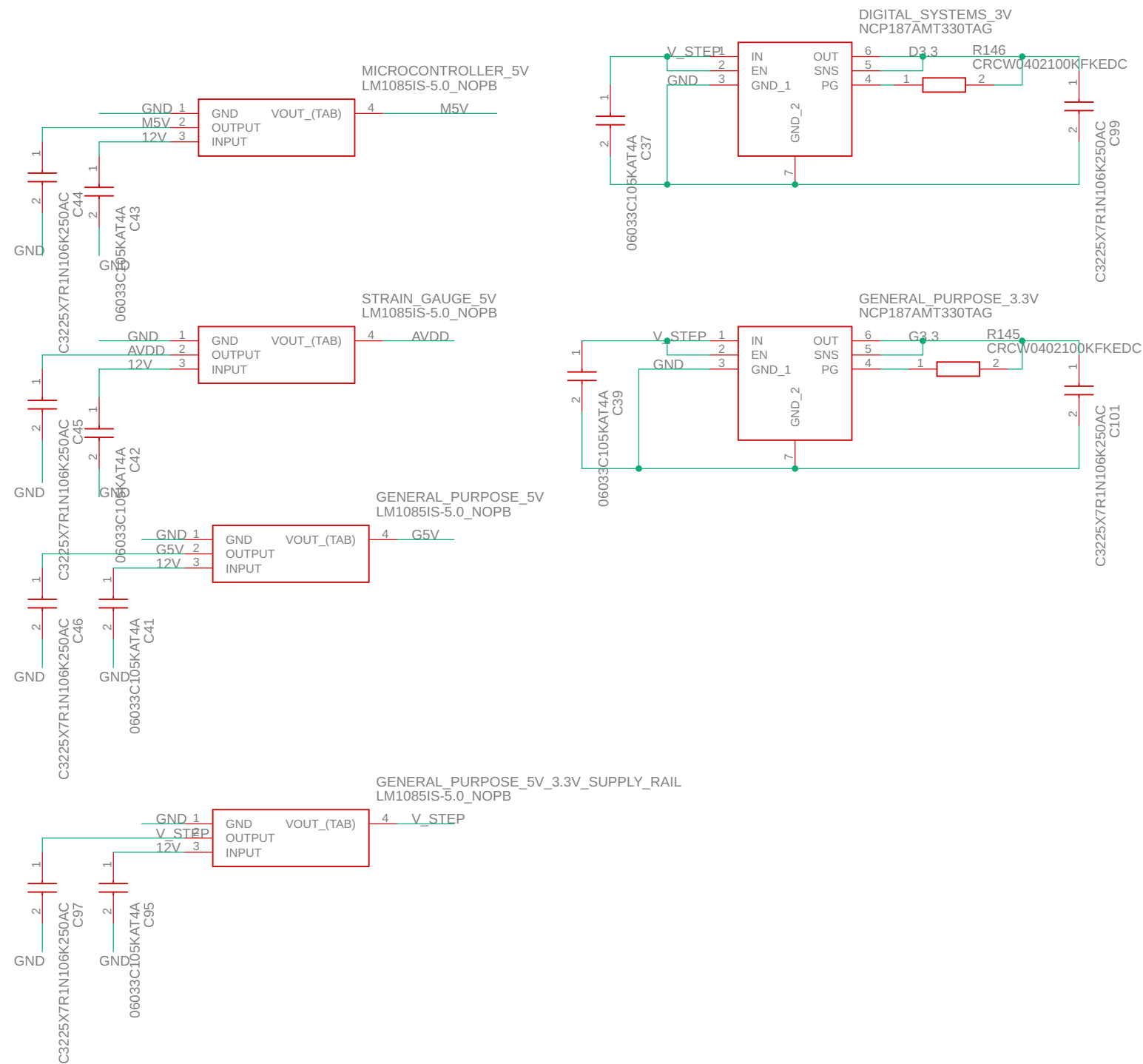






Power rails

- 12V
- 5V Dedicated to microcontroller and gps only
- 5V Dedicated to strain gauge configurations and hardware
- 5V Dedicated to general purpose sensors
- 3.3V Dedicated to basic digital logic
- 3.3V Dedicated to General sensors.



34x connectors

Strain guage connectors contain  
-12V rail, 5V rail, +, -, GND  
-16x Strain Gauges channels

General analog connectors contain  
-12V rail, 5V, 3.3V, +, -  
-12x General puirpose - 2 dedicated to 3 axis accelerometers

-8x digital inputs

