

ASME 2020 Schematic V3.1

Blue Shift – HPVDT UofT

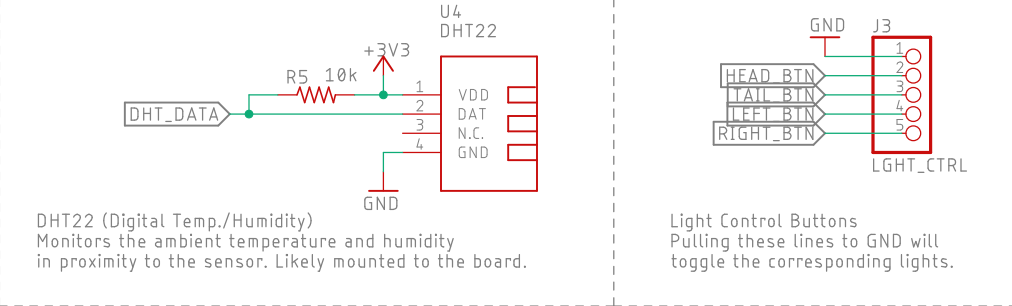
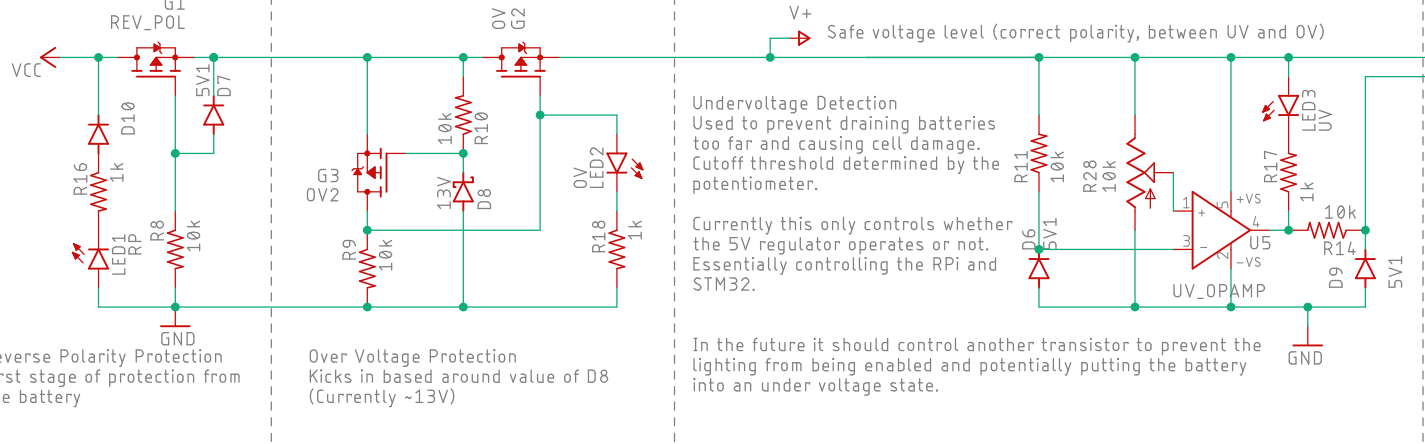
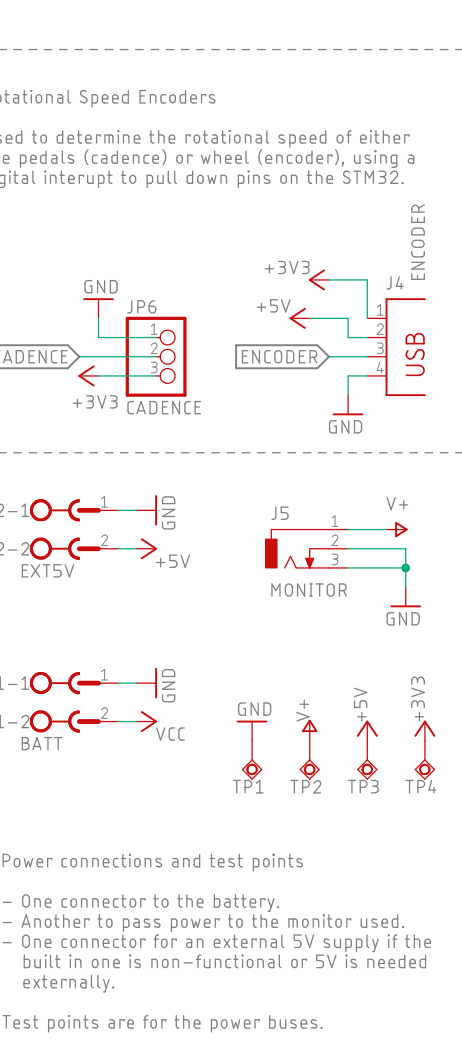
Based largely on TITAN (WHPSC 2019/20)

Circuit Design / PCB Layout:
Catherine Kucaba / Savo Bajic

Programming:
Ethan Baron / Yvonne Yang / Savo Bajic

Raspberry Pi (RPI)
Connected to the digital camera and display to provide a view out of the vehicle. This view is overlaid with the datas from the sensors.

Communicates with the system over USART (serial), with protection.
SHDN button pulls down a pin to signal the RPI to shutdown properly.



Data Connections
A slight mess.
STM32 sits in the middle to connect everything, collect data, and handle real-time events.
Protection diodes installed to shield subsystems systems in the event of any over/underloads on data lines.

