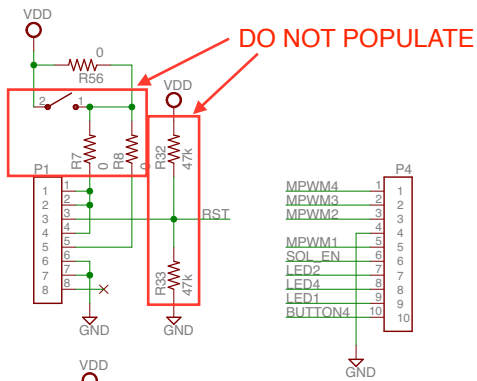


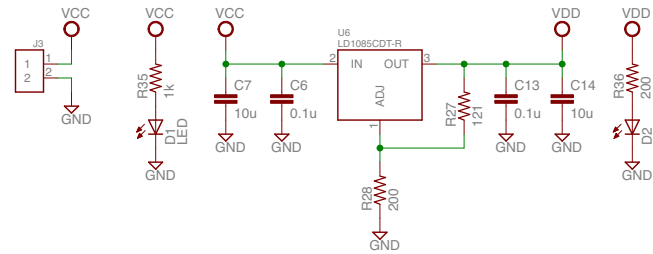
nRF51-DK Interconnect.

No connects are labeled with their connections on the nRF51-DK development board. Refrain from using incase these services are needed.



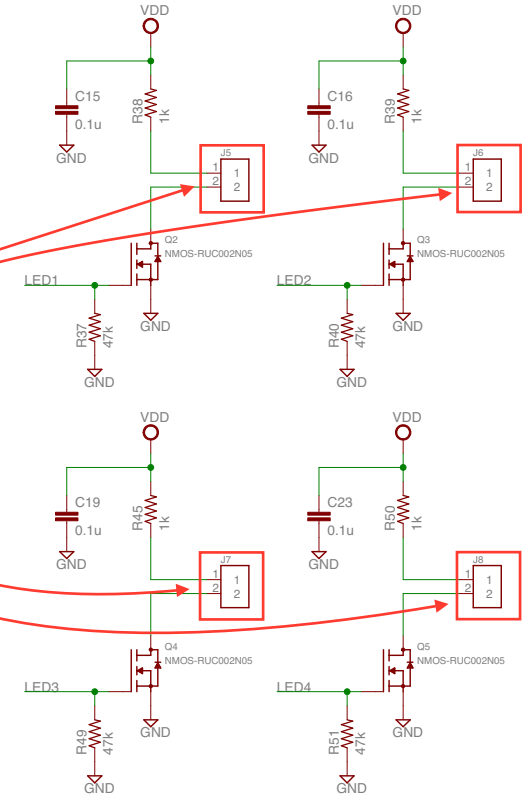
Power supply.

Power supply. LEDs for visual power indication.



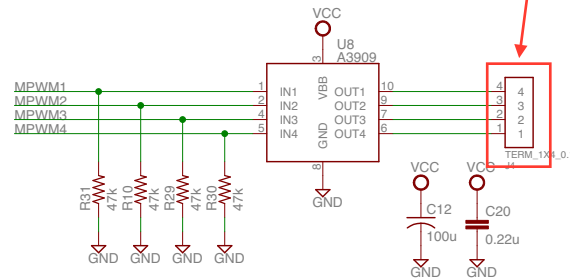
LED Actuation.

Off board LED's for HMI.

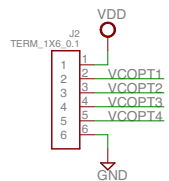


Stepper Motor Control.

PWM signals used to control stepper motor.

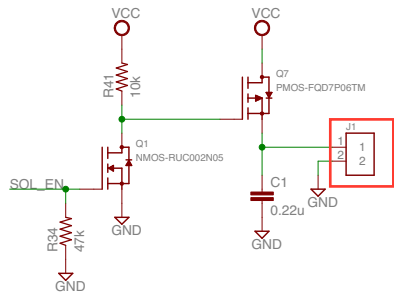


External Sensors.



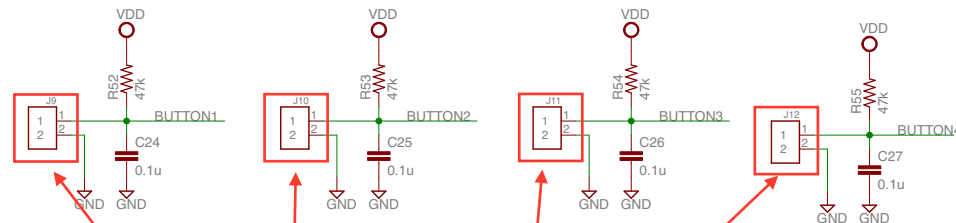
Solenoid Control.

NMOS switch to engage solenoid.



Button Interface.

Off board buttons for HMI.

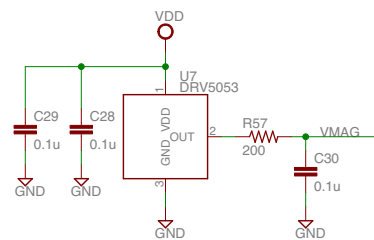
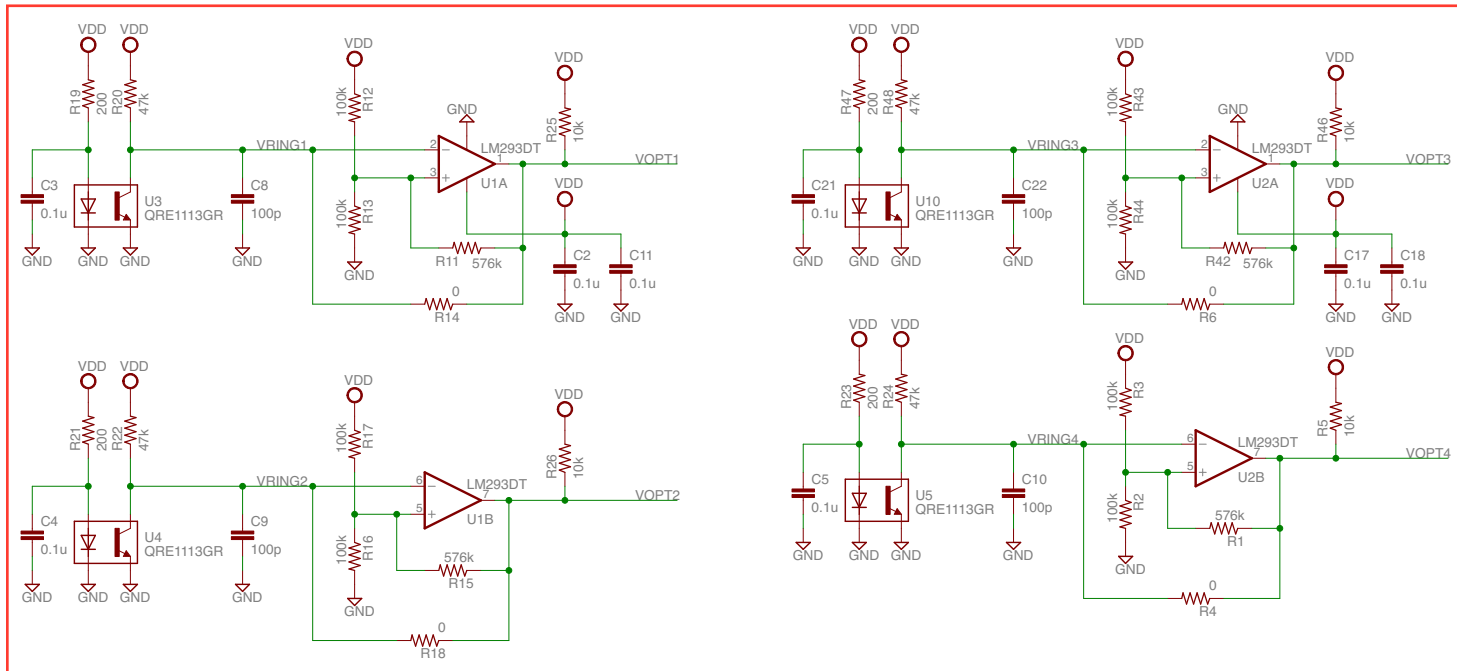


Sensing.

One reflective sensor for each potential reflective stripe of interest, followed by a comparator with hysteresis. 0 ohm NO-POP can be used to take raw signals directly to the MCU.

Technical Notes:
 - 47k / 100pF -> TC: 4.7u, COF: 34kHz.
 - 200 / 0.1u -> TC: 20u, COF: 8kHz.

DO NOT POPULATE



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Sheet: 2/2