My Components Choice:

Arduino nano33 iot controls following components:

4 Trimmer Resistors -> Digital Potentiometers

3 Switches -> Digital or Analog Switches

Slide Rheostat for Load -> Rotary Rheostat with Servo Motor

RV1 & RV2 (2.22KΩ)

- MCP4151 Volatile Digital Potentiometer, 5 kohm, Single, SPI, Linear

RV3 & RV4 (50KΩ)

- MCP4151 Volatile Digital Potentiometer, 50 kohm, Single, SPI, Linear

LC_MODE Switch

- NX3L4357 single pole triple throw

SyncBuck Switch

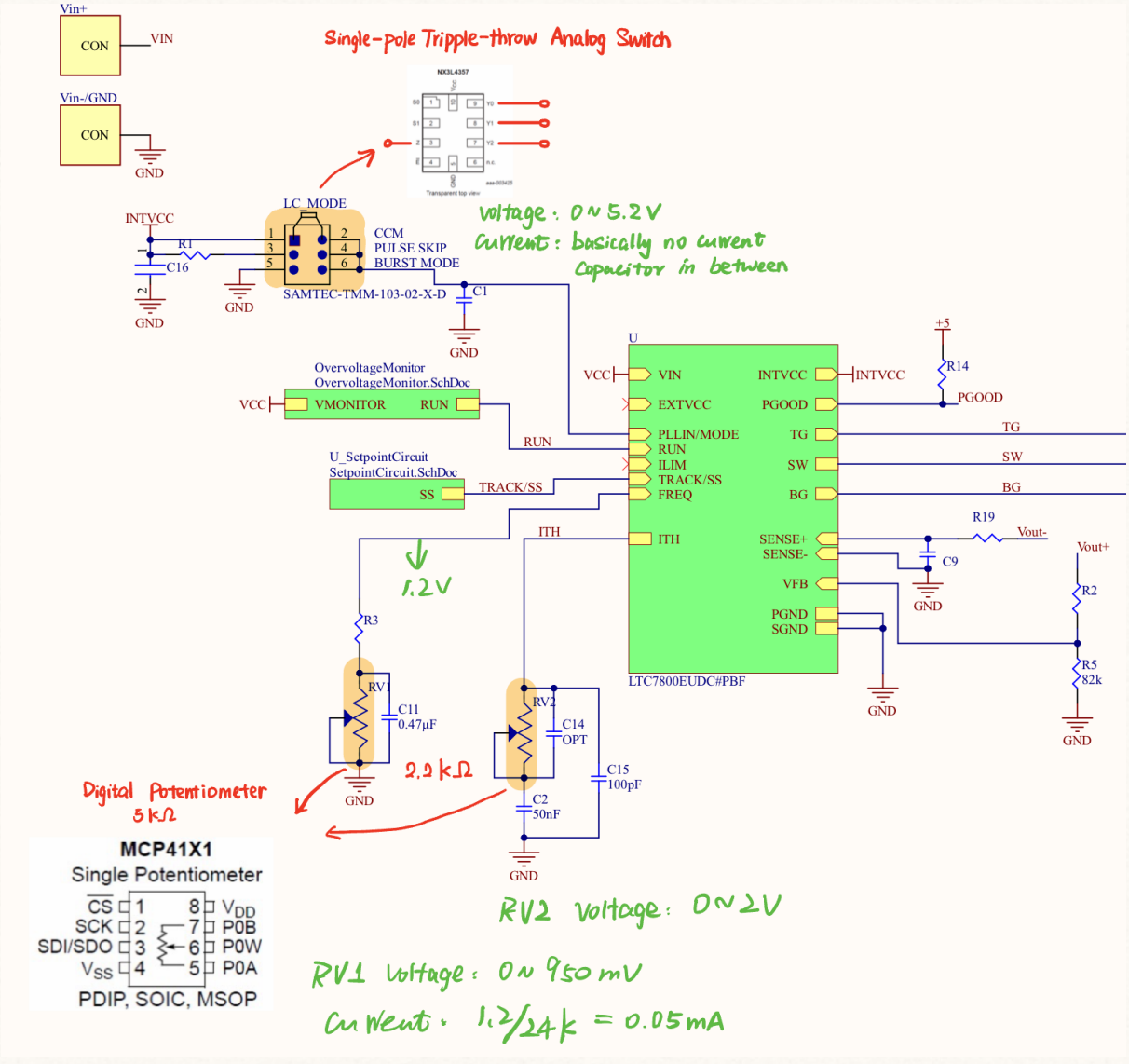
- NX3L4357GM 115, Analogue Switch ICs ANLG SWT SP3T 3.3V

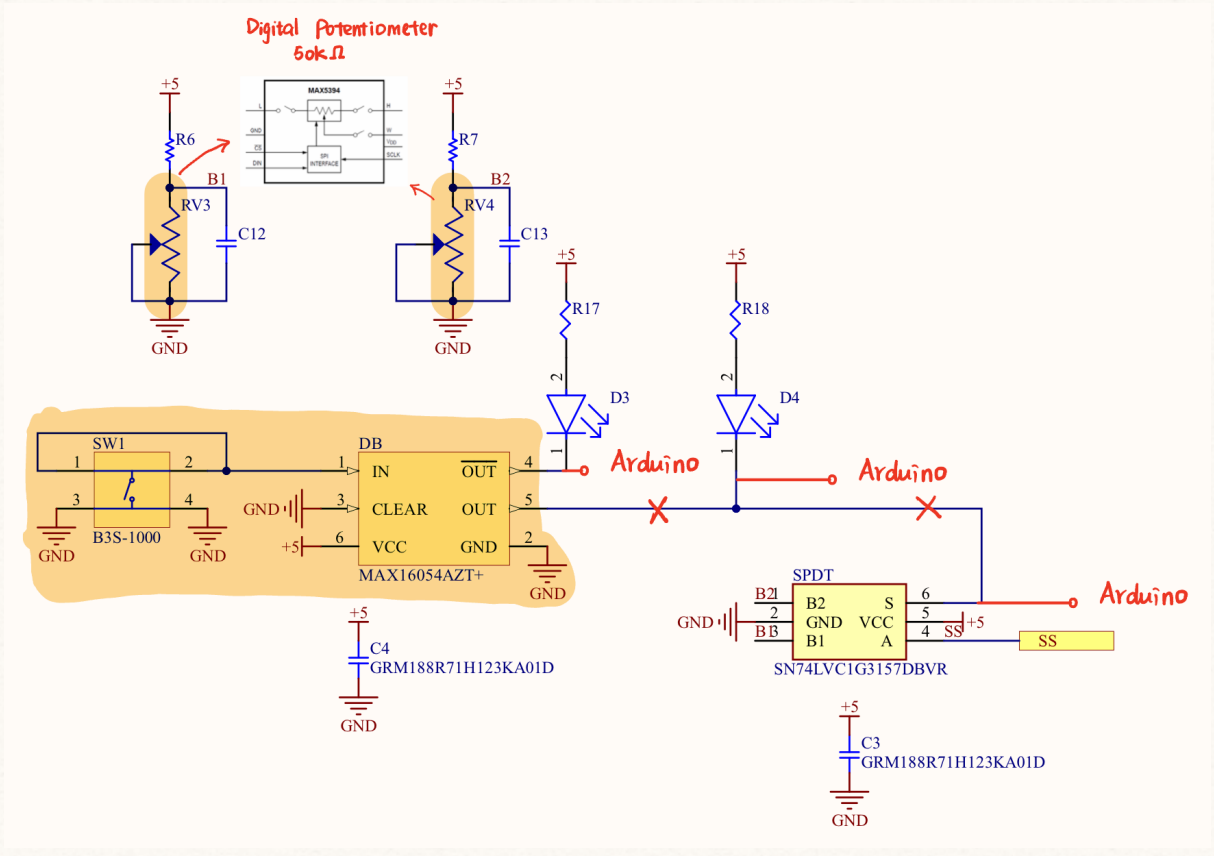
CapSelect Switch

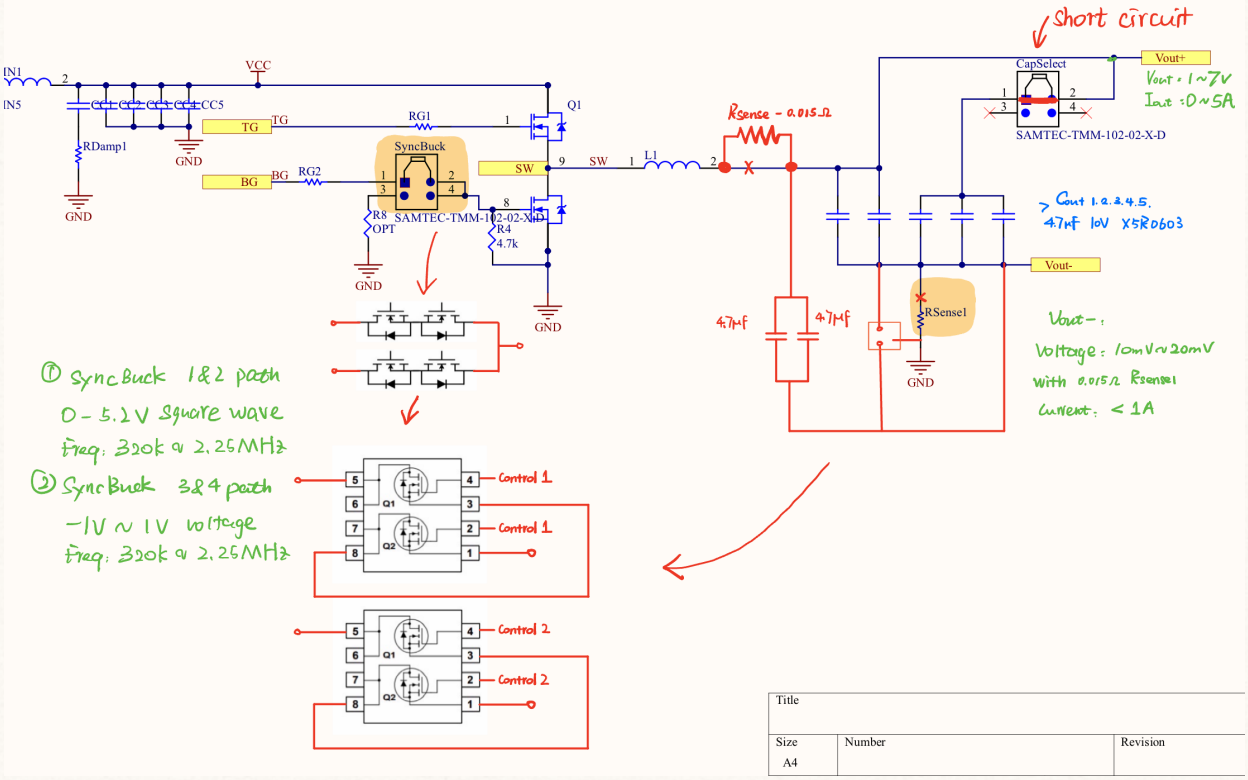
- NX3L4357GM 115, Analogue Switch ICs ANLG SWT SP3T 3.3V

Slide Rheostat for Load

- SER0046 270 degree Rotation Micro Servo
- sourcing map 50W 100R Ohm Wirewound Ceramic Potentiometer Variable Rheostat Resistor with Knob







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