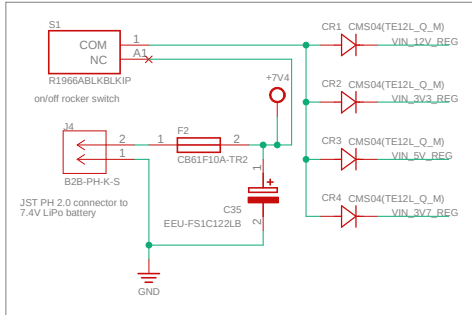
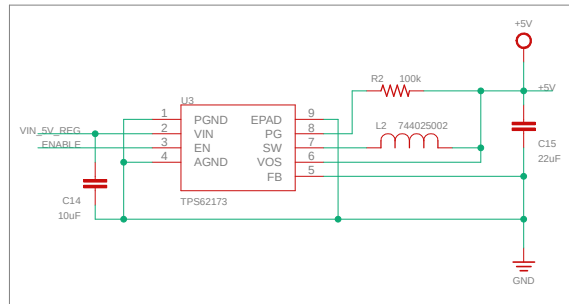


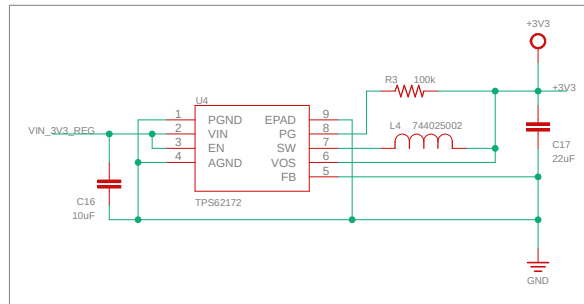
Battery Monitor Comparator



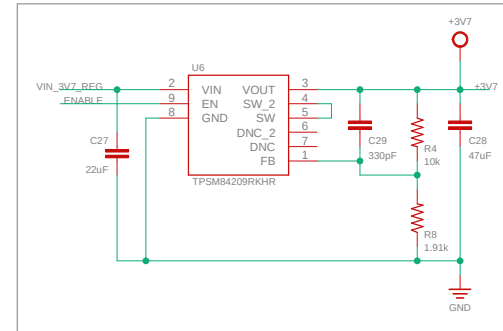
Battery and on/off switch



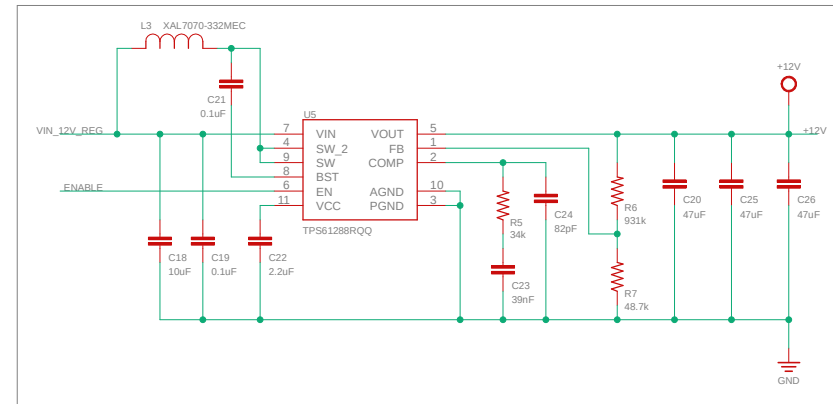
5V regulator



3.3V regulator

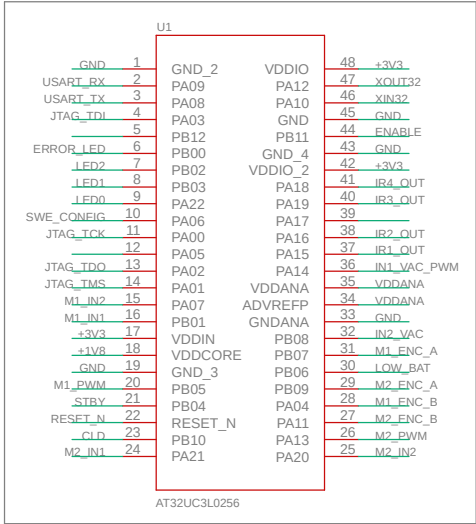


3.7V regulator

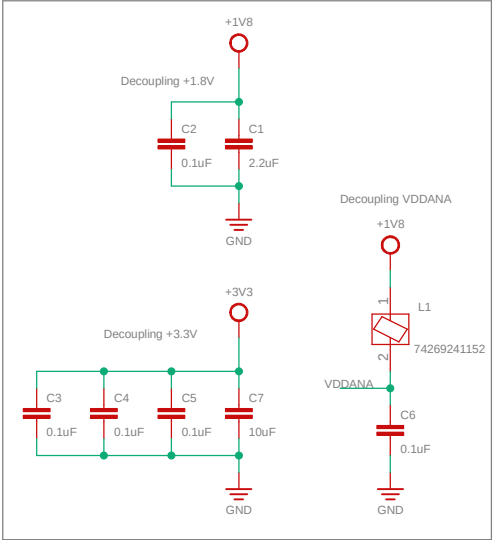


12V regulator

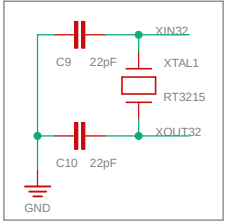
Title: Mouse 7 - Power		
Date: 8/31/2024	Rev: A	Sheet: 1/5
Author(s): Ryuichi Lin		



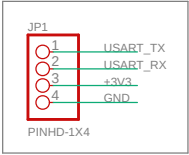
MCU to breakout pins



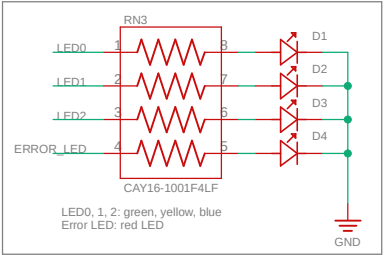
Decoupling



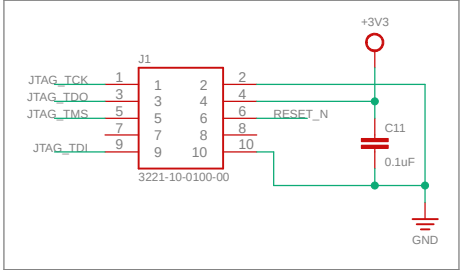
External 32kHz Crystal



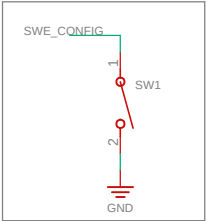
Serial UART out



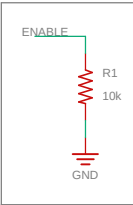
Indicator LEDs



JTAG programming

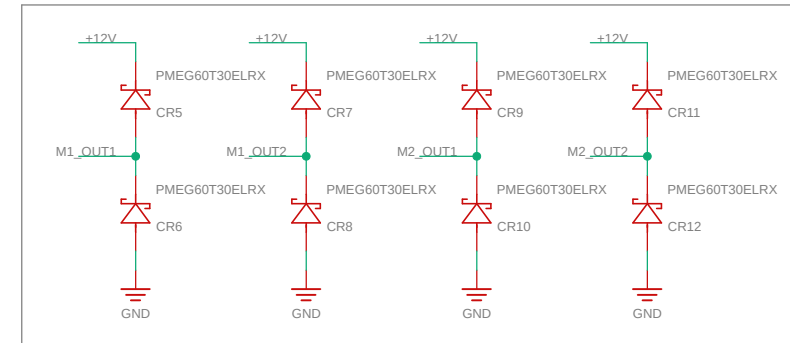
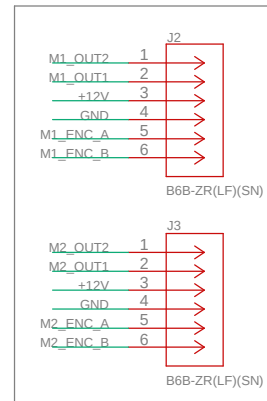
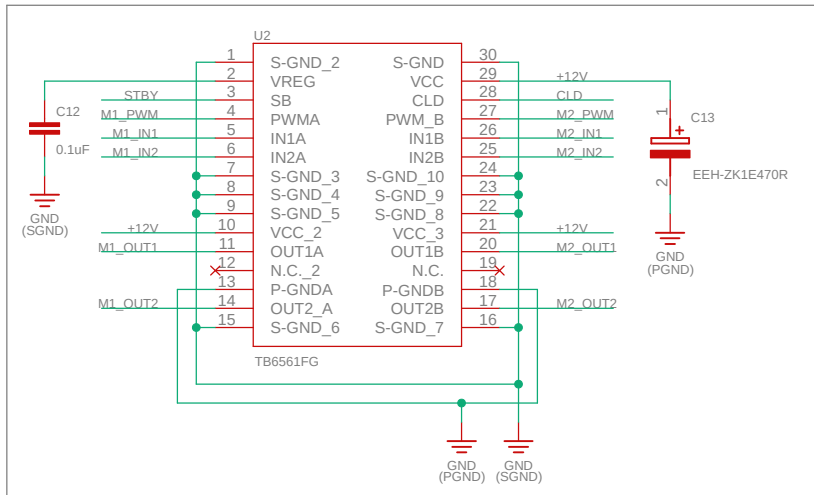


Software Configuration Switch

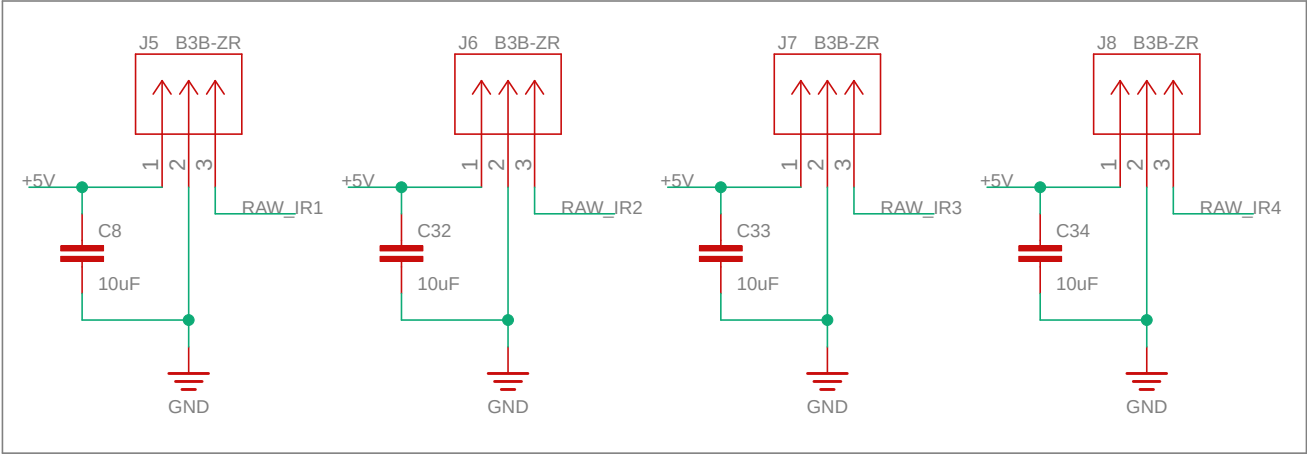


Enable Pull-down

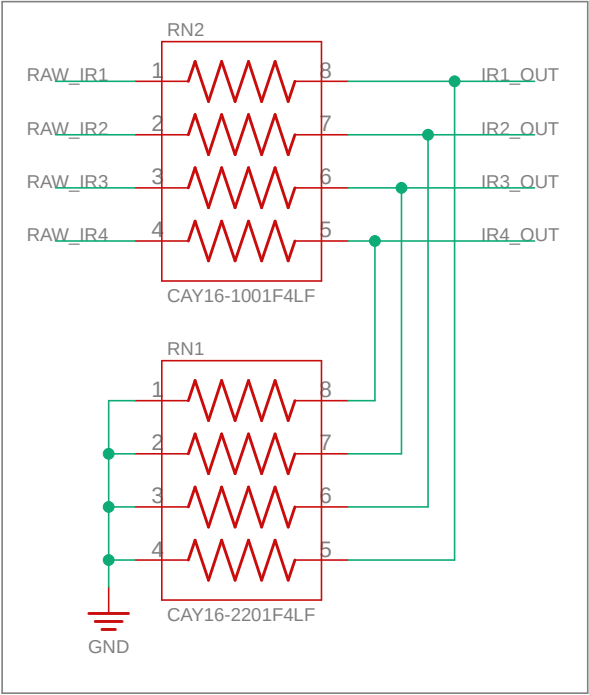
Title: Mouse 7- AT32UC3L0256 MCU		
Date: 8/31/2024	Rev: A	Sheet: 2/5
Author(s): Ryuichi Lin		



Title: Mouse 7- Wheel Motor Driver		
Date: 8/31/2024	Rev: A	Sheet: 3/5
Author(s): Ryuichi Lin		

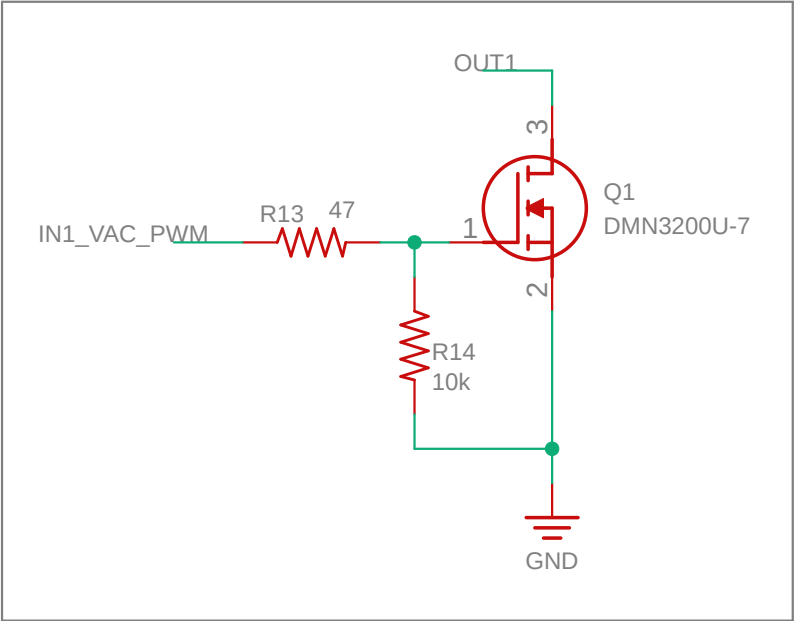


IR Sensors

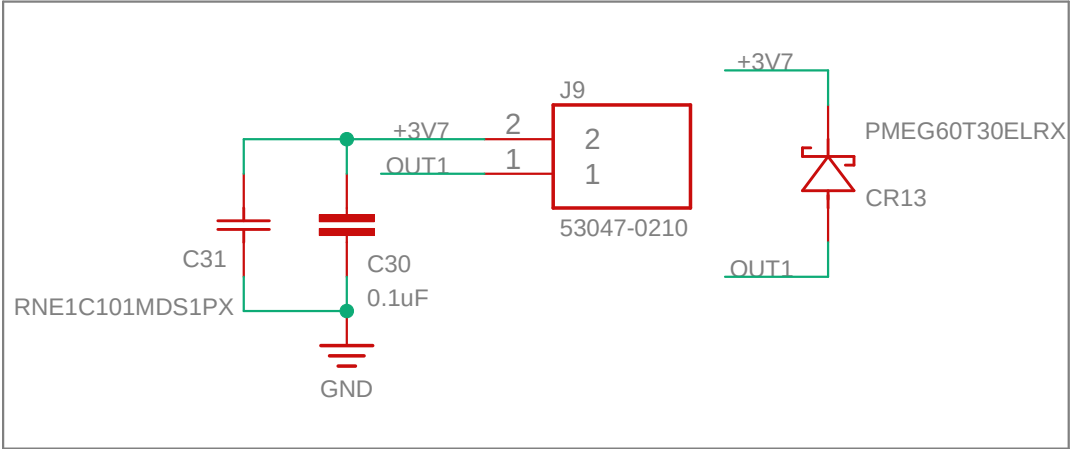


IR Sensor Voltage Divider Network

Title: Mouse 7- IR Sensors		
Date: 8/31/2024	Rev: A	Sheet: 4/5
Author(s): Ryuichi Lin		



Vacuum Motor Driver



Brushed Motor Picoblade Connector
& Flyback Diode

Title: Mouse 7- Vacuum Motor Driver		
Date: 8/31/2024	Rev: A	Sheet: 5/5
Author(s): Ryuichi Lin		