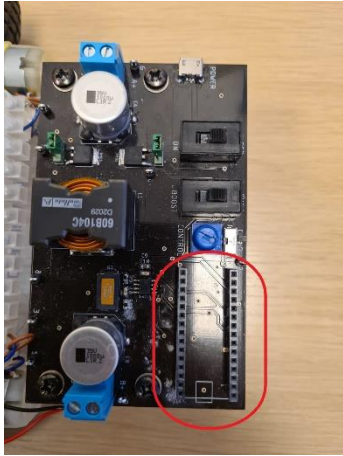Motor Drive Module

Assembly

After assembling the Rover, you need to follow these steps to assemble the motor drive module:
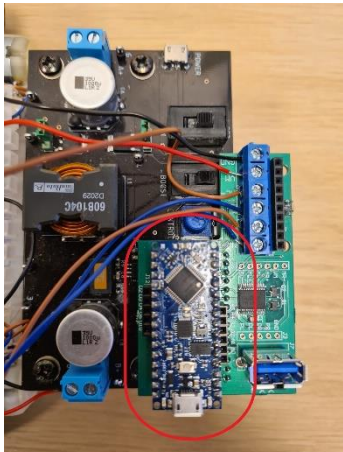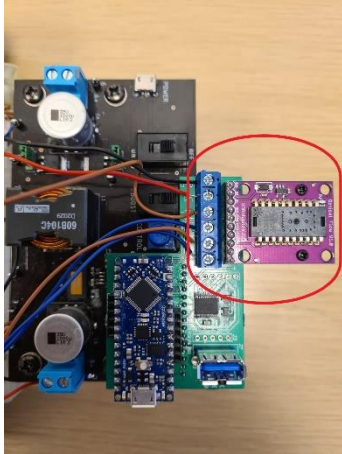
1. Remove the Arduino Nano from the SMPS board.

2. Place the motor drive PCB on the SMPS board such that the male headers under the motor drive PCB are inserted into the female headers from which you removed the Arduino Nano. Also, connect these wires:
   - Connect the right motor wires to the blue terminal block connections labelled MR+ and MR-.
   - Connect the left motor wires to the blue terminal block connections labelled ML+ and ML-.
   - Connect the output of the SMPS (B+, B-) to the blue terminal block connections labelled VM and GND using jumper cables.

3. Insert the Arduino Nano Every on the motor drive PCB.

4. Insert the male headers under the optical sensor PCB on the motor drive PCB in the given slot.

5. The Rover will look like this after the final assembly of the motor drive module.