Vibration motor circuit

R2
1k

U2
MOTOR10MM

+5V

D1
IN4007

R5
220

PWM Pin

Q2
IRF520NPBF

GND

Peltier device circuit

R1
10k

PWM Pin

VCC(max15.4V,7A)

PE1
TEC1-12709

Q1
IRF520NPBF

GND
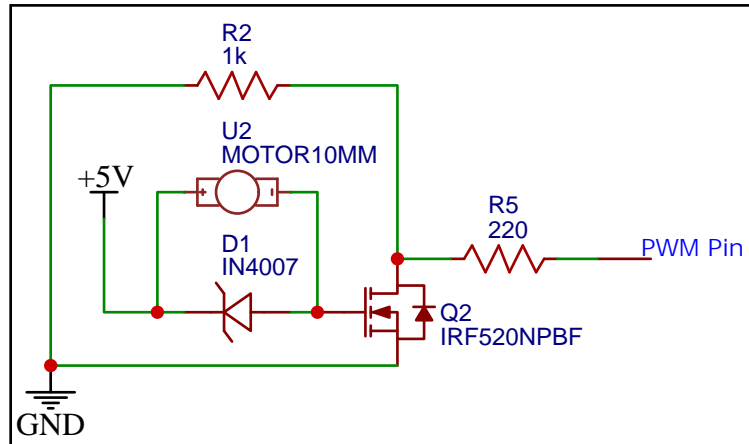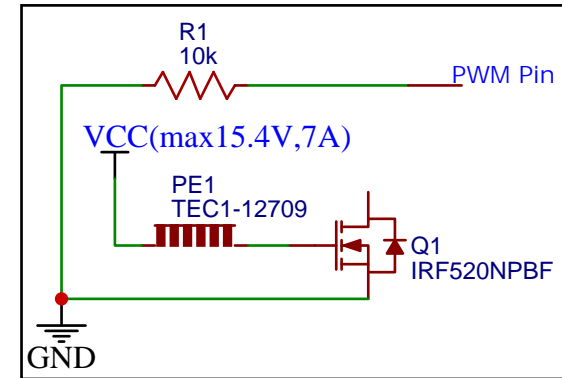
PWM Pin: Digital Pin of the controller which supports PWM.

We used Arduino UNO Rev3. Precisely its PWM Pins 3,5,6,9,10,11

Both circuits can be repeated assigning a different PWM Pin to each of them (setting them in the code).

Our pinout setup was:

- Vibration motors: 3, 5, 6, 9
- Peltier devices: 10, 11