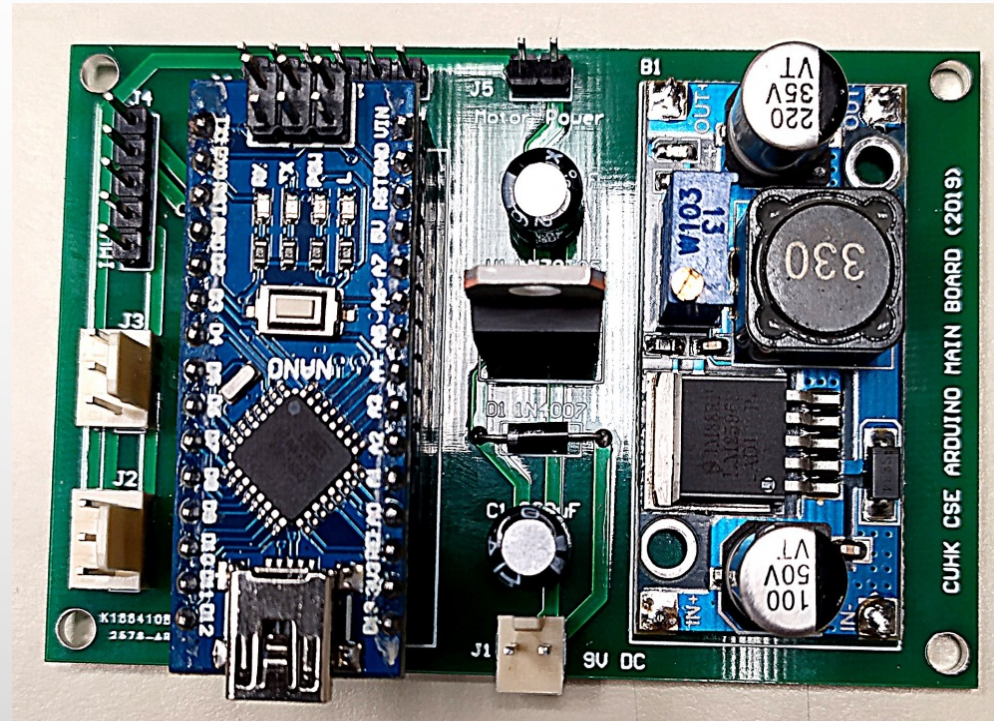


The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

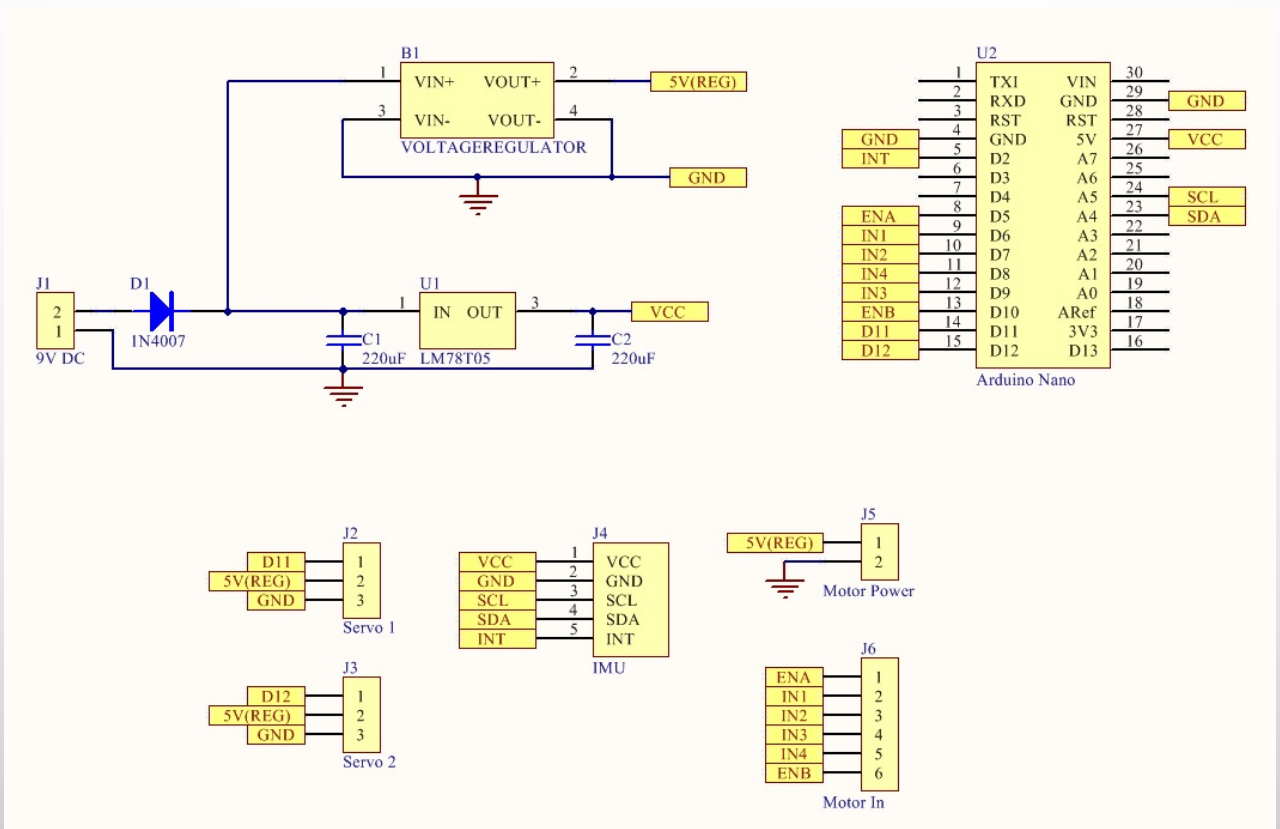
Laboratory 6: Arduino Mainboard PCB Soldering

Tinghuan and Hao

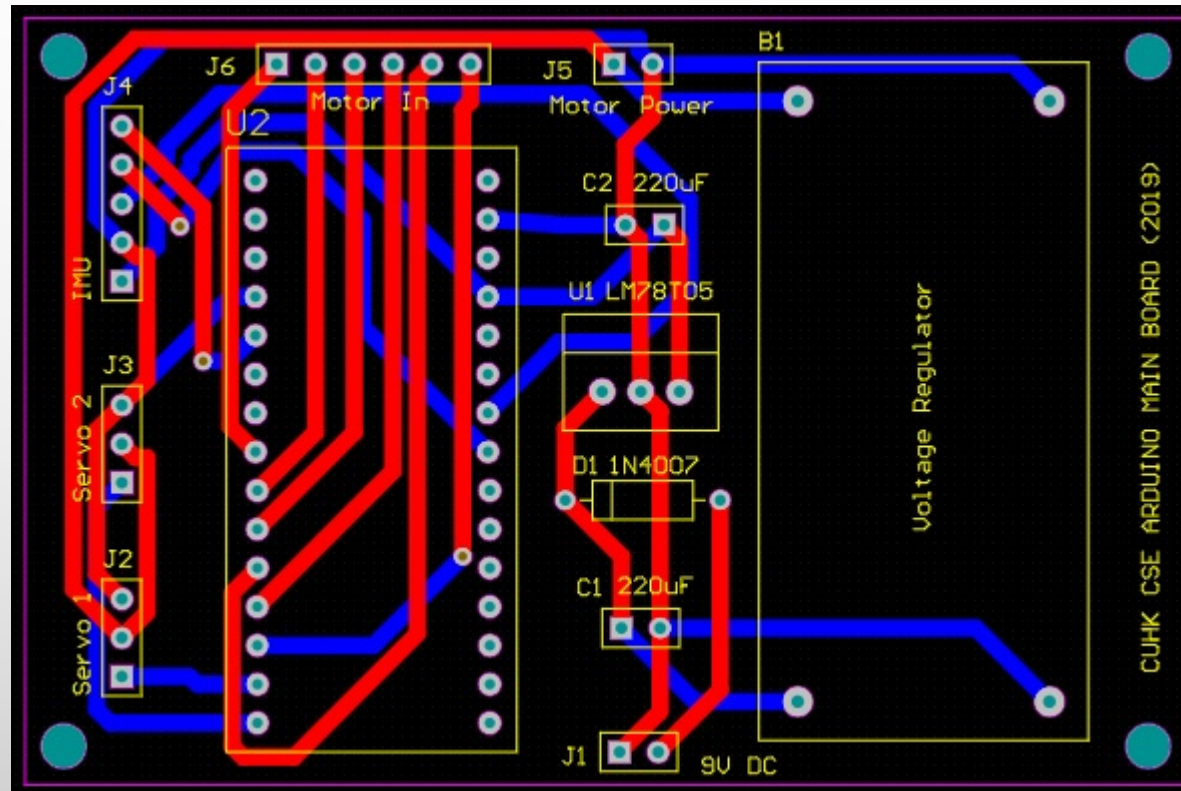
PCB With All Components



Schematic



PCB Layout





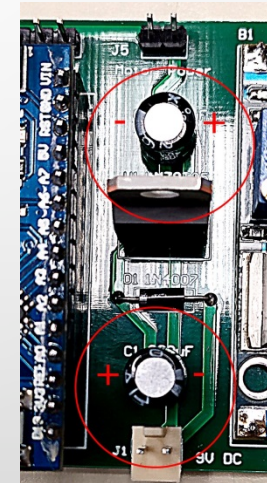
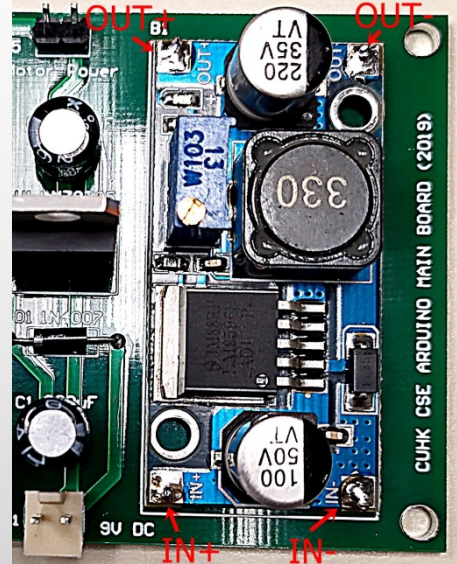
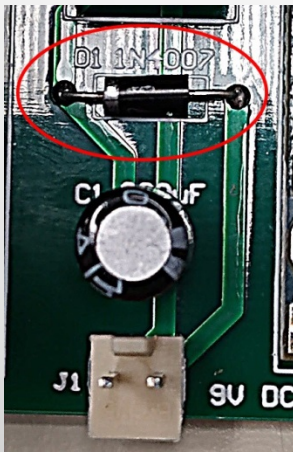
Objectives

- To practice the soldering technique
- To test circuit on PCB



Exercise 1

- Solder all the components on to the PCB
- Be careful the polarity of the components



Exercise 2

- Connect the 9V power supply to the arduino mainboard
- The green LED on the arduno nano will be ON
- Adjust the VR (variable resistor) on the voltage regulator module and measure its output to reach 5V
- Measure the voltage on J2 pin 2, J3 pin 2, J4 pin 1 and J5 pin 1, all of these should be 5V

Requirements

- Take A photo for your PCB with all components soldered.
- Take some photos for your measured voltages on j2 pin 2, j3 pin 2, j4 pin 1 and j5 pin 1.
- All photos are submitted to blackboard before the **deadline 7 nov.** (No report requirement).