**TECHIN-514 Lab2**

**Selected Resistors and Calculations**

* VOUT\_1 = 2.03V
  + By the datasheet of LM317,
  + Since is neglectable, solve and get
  + By the datasheet of the LED LS R976, forward voltage is 2V, and current is 20mA
* VOUT\_2 = 2.13V
  + By the datasheet of TPS79301,
  + Solve and get
  + By the datasheet of the LED LTST-C191KRKT, forward voltage is 2V, and current is 30mA
* VOUT\_3 = 2.13V
  + By the datasheet of MIC5377,
  + Solve and get

**BOM Spreadsheet**

A screenshot of a computer

Description automatically generated

**PCB Board**

A green circuit board on a wood surface

Description automatically generatedA hand holding a circuit board

Description automatically generated

**ESP32 code on GitHub**

Link: <https://github.com/corylus98/techin514-lab2/blob/main/src/main.cpp>

**Serial Output from ESP32**

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated