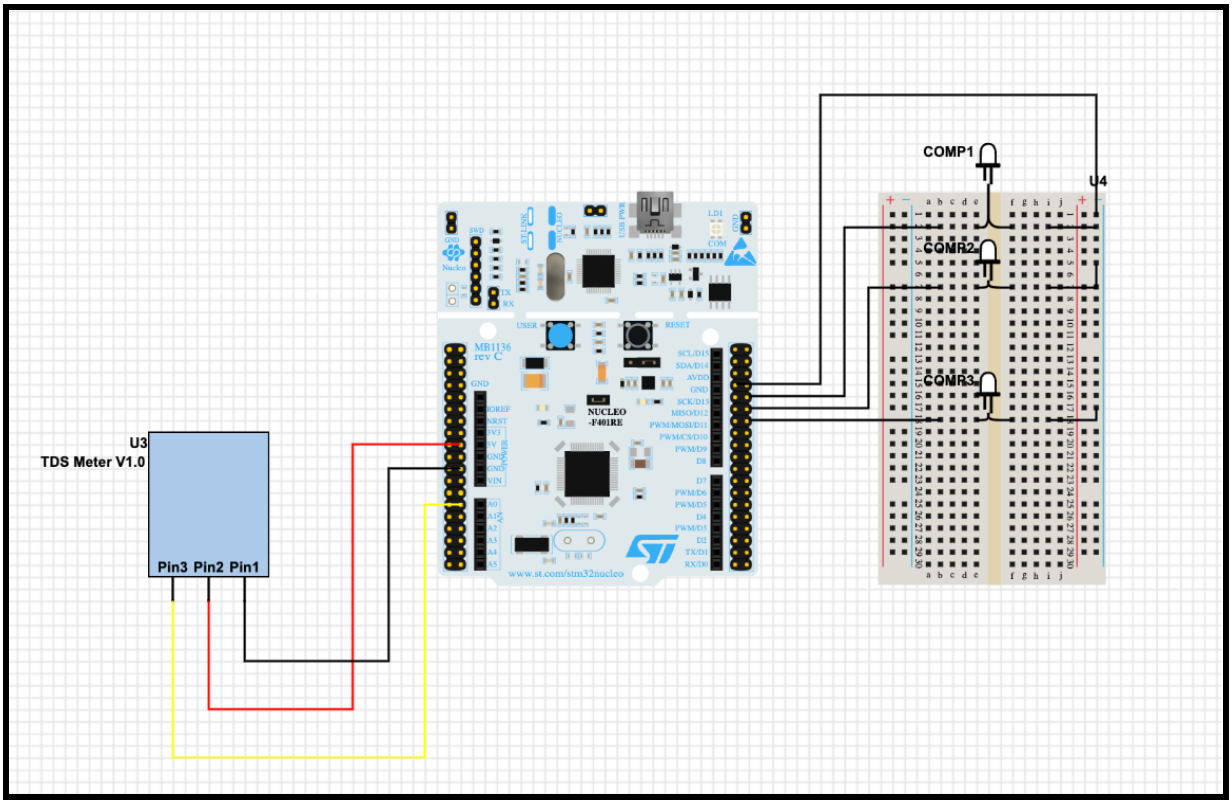
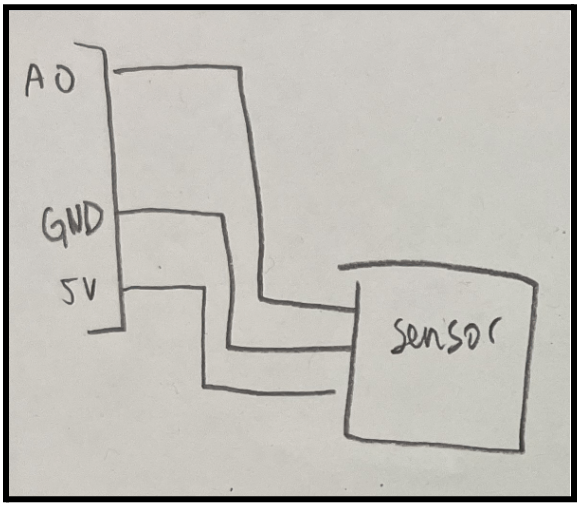


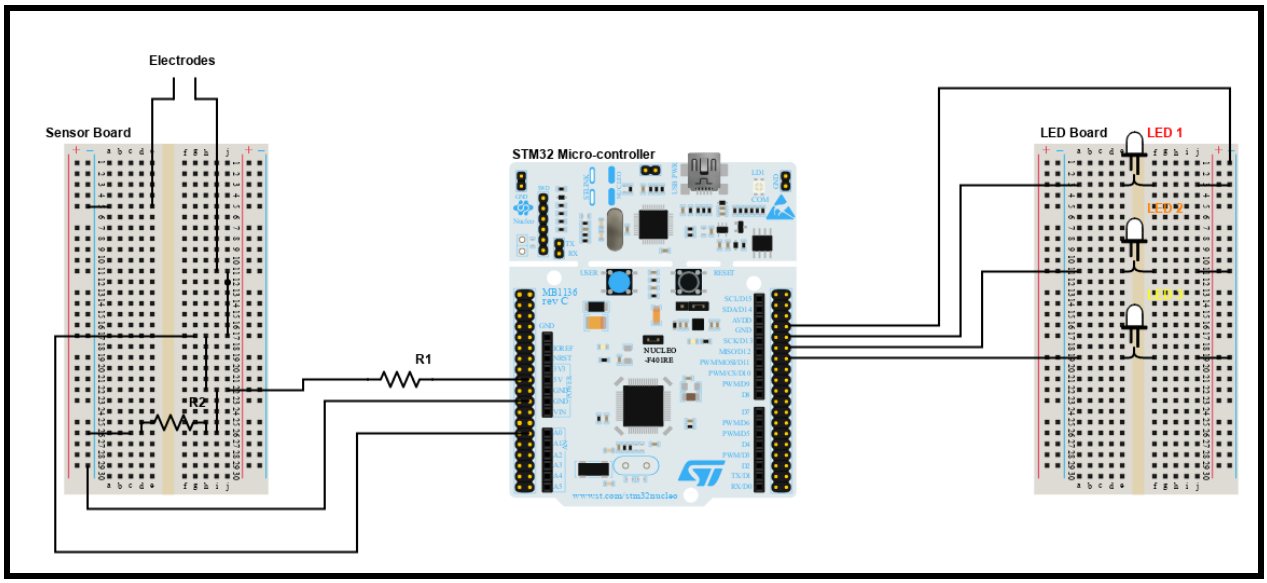
Above: Digital Schematic



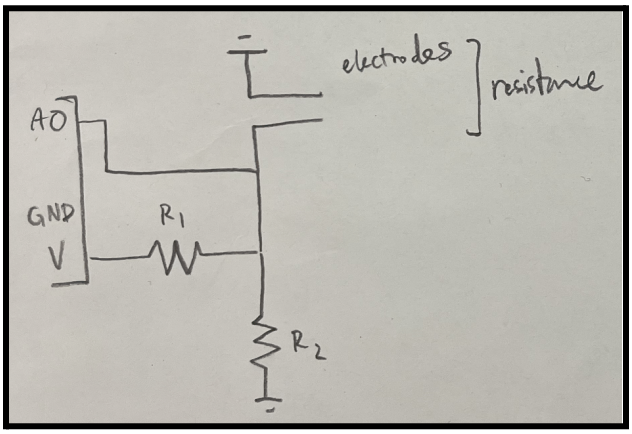
Above: Circuit Schematic

Version 1.0 (initial test)
October 29th, 2022

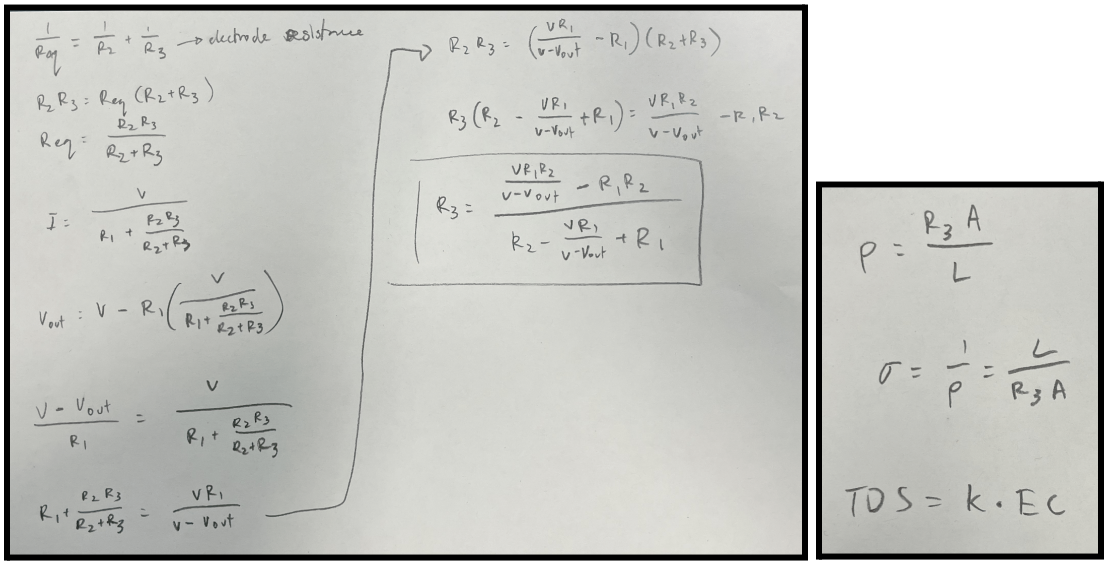
- Sensor will be developed later



Above: Digital Schematic



Above: Circuit Schematic

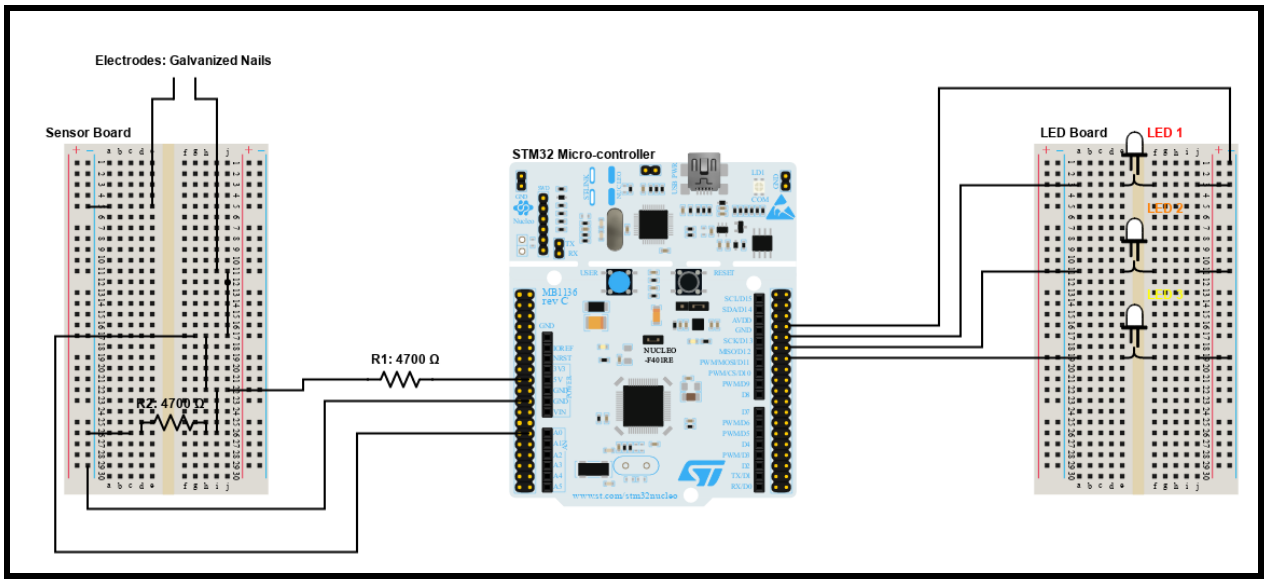


Above: R_3 (resistance of the electrodes) derivation, TDS (total dissolved solids) derivation

Version 2.0 (Sensor development model)
November 9th, 2022

Changes:

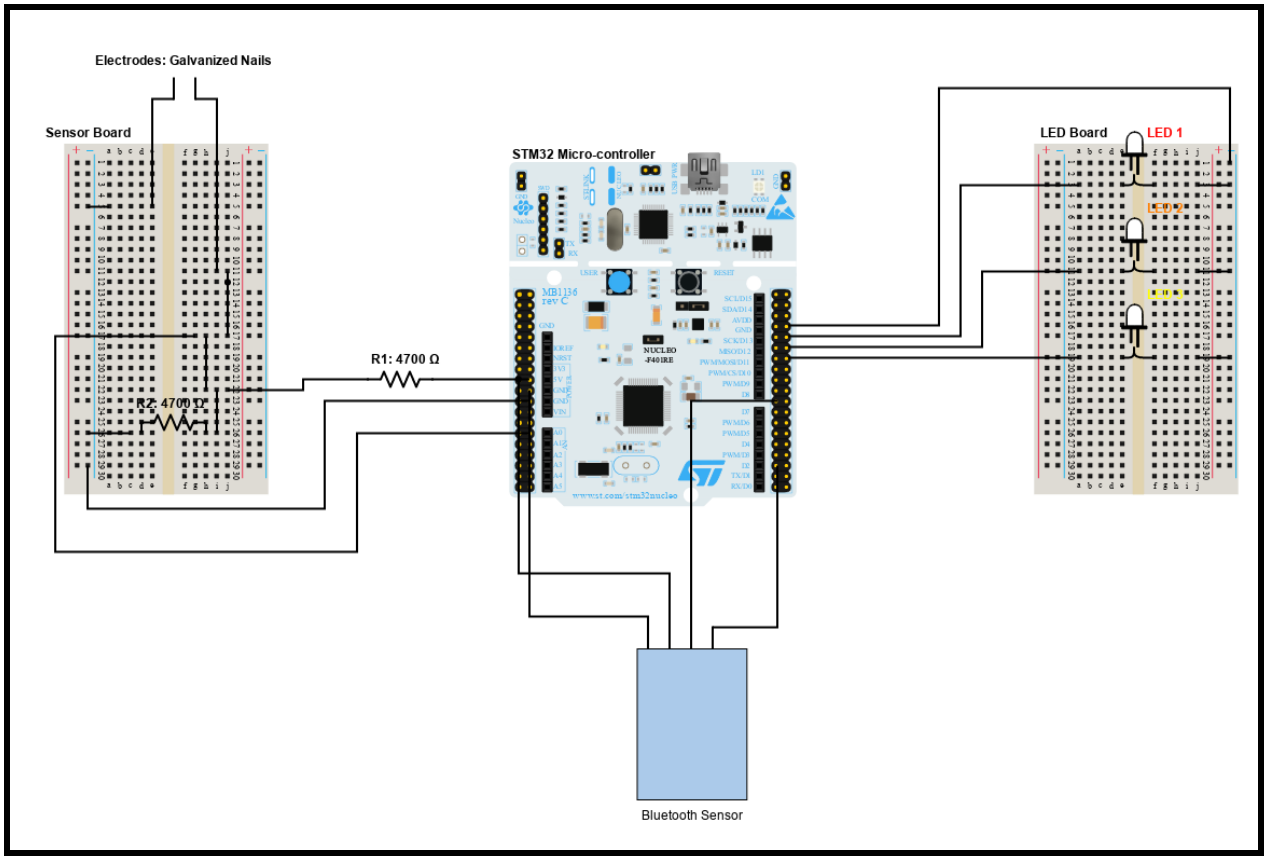
- Developed sensor using electrodes
    - Works with resistors, electrodes, and a breadboard
    - Utilizes Kirchhoff's circuit laws, V=IR, the resistivity formula, and the total dissolved solids formula
- Added names of the devices
- Split breadboard into two in the diagram for easy visual comprehension



Version 2.1 (Sensor development model)
November 14th, 2022

Changes:

- Added values for R1 and R2.
    - R1 is a resistor of 4700 Ohms.
    - R2 is a resistor of 4700 Ohms.
- Added the material of the electrodes.
    - The electrodes will be made of galvanized nails.
- Note that the breadboard is still split into two for easier visual comprehension



Version 3.0 (Sensor development model)
November 20th, 2022

Changes:

- Added the bluetooth sensor.
    - Connects to GND, 5V, D2, and D7 pins.