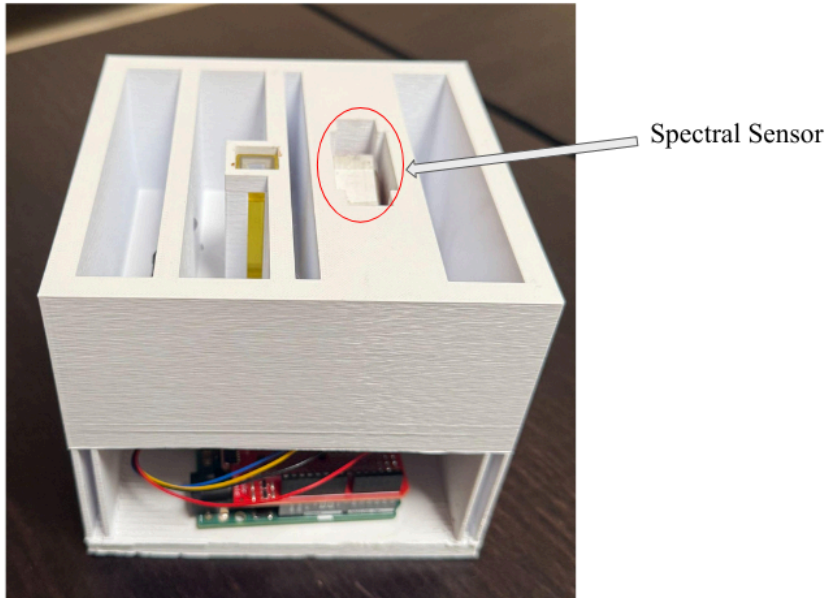


Instruction Manual for Assembly:

<https://github.com/anukha-v/Spectroscopy-Educational-Kit.git>



1. Attach the Qwiic shield to an Arduino microcontroller
2. 3D-print the Spectrometer Housing (SpectrometerHousing.stl). Include supports as necessary, with infill 15%
3. 3D-print the two pieces of the spectral sensor casing (SensorHolderOuter.stl and SensorHolderInner.stl)
 - a. Place the spectral sensor into the inner part, where it should fit snugly.
 - b. Attach Qwiic connector wire from the spectral sensor to the Arduino's Qwiic shield, guiding the wire through the hole in the upper layer of the housing
 - c. Place the sensor + inner casing into the outer shell
 - d. Screw in place with Phillips sheet metal screws #4 (0.112" diameter)
 - e. Place the modular sensor unit into the designated slot in the spectrometer housing
4. Use a standard 1cm cuvette (12.5 mm width x 12.5 mm depth x 45 mm height and fill with sample to be analyzed
5. Cover the housing with a lid to ensure stray light is blocked during data collection