IEEE CIS SOCIETY COMPUTER VISION X IOT PROJECT REQUIREMENTS

General Requirements

- Python: Version 3.10.x
- Webcam: A functional integrated or external webcam is necessary for all realtime video processing tasks.
- VS Code: https://code.visualstudio.com/download
- **Python 3.10:** https://www.python.org/ftp/python/3.10.9/python-3.10.9-amd64.exe
- Arduinio IDE with Arduino Board Installed https://downloads.arduino.cc/arduino-ide/arduino-ide 2.3.6 Windows 64bit.exe
- Arduino IDE installation Guide Video: https://www.youtube.com/watch?v=3awCkLS7gHI
- Required Libraries:
 - o opency-python: For video capture and display.
 - mediapipe: For detecting hand landmarks and tracking movements.
 - o pyserial: For serial communication with hardware like an Arduino.
- Installation Command:
 pip install opency-python mediapipe pyserial