

# CME 466 Lab 3: IoT-based smart parking system

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## Python Code

All code is included in the ZIP file submitted with this report. You will find major files in this ZIP archive. The personal laptop or PC that takes sensor data from the Pi or sends commands to the Pi has its own **subscribe\_3\_8.py** and **publish\_3\_9.py** files for the respective parts.

## List of Python Packages

1. ADC - PCF8591.py
2. Pins on Pi - RPi.GPIO
3. Delays – time library
4. For conversion of temperature – math library
5. For calculating latencies - datetime library
6. For cryptography - cryptography library
7. For MQTT connections - paho-mqtt library
8. For GUI on the personal PC side - PyQt5 library

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