* Designed and developed a breath rate sensing system for small animals with IoT products.
* Designed and developed a testing platform for a bio-sensor IC with Arduino and custom PCB.
* Conducted chemical test on bio-sensor ICs.
* Managed BOM files and ordered PCB and components from manufacturers and suppliers.
* Assemble the PCB with hot air rework station.
* Wrote graphical testing interface with PyQt, C#, MATLAB.
* Gained experience with various serial communication protocols such as SPI, UART.
* Gained experience with wireless technologies such as BLE, Wi-Fi, TCP/IP.
* Extensive hands-on experience with sensors and data acquisition system.
* Excellent device characterization, testing, and product prototyping skills