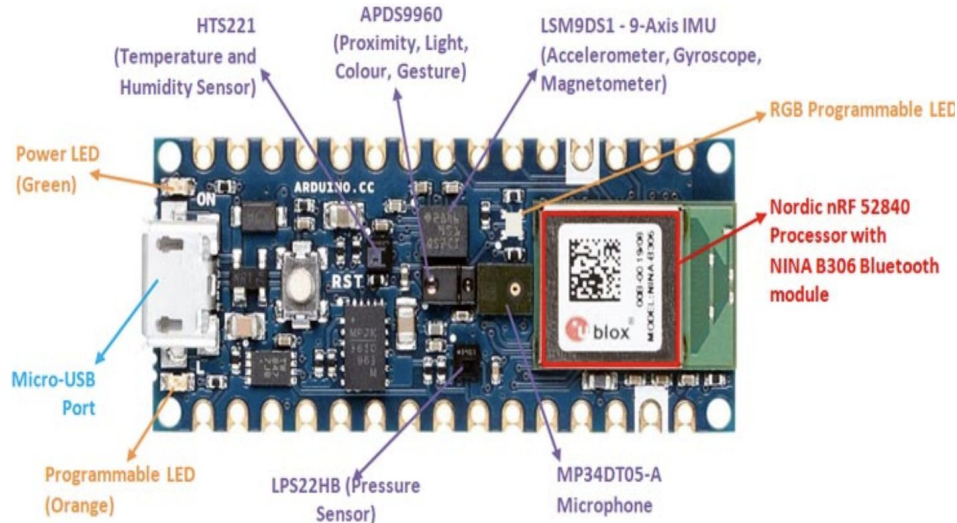


Preventative Maintenance & Analysis For Solar With Embedded Systems & Machine Learning

Machine Learning Software Development Cycle



Development Board & Sensors



System Design Specs & Features

- Board Length 45 mm
- Board Width 18mm
- CPU Flash Memory 1 mb
- SRAM 256 kb
- Detects conditions that lead to; delamination, loose connections, corrosion, oxidation, cracks, hot spots, and inverter problems
- **Data points:** current, voltage, temperature, humidity, air pressure, light intensity, audio, and chemosensor data
- **Objectives:** preventative maintenance, molecular and performance analysis, efficiency and reliability improvements