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Case Study

Liquid Detection Sensor

Project/Client Details

- Solution architecture and development of prototype.
- Multinational Company focusing on Steel, Energy and Textile industries

Design Scope

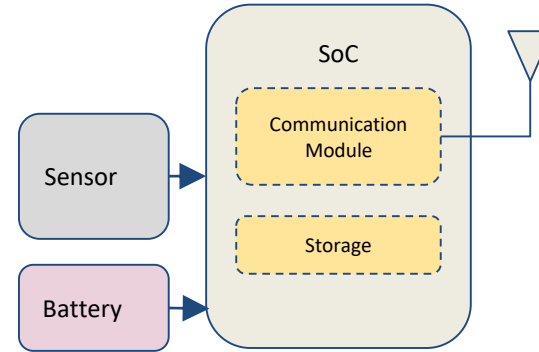
- Design a sensor node for sensing liquid and transport via BLE to a mobile application
- Sensor probe design, so as to enable easy removal
- Smallest Form Factor – 30x30 mm²
- User friendly mobile application
- Optimal battery life
- Highly cost optimized solution

Expertise/Tools

- Expertise in BLE based solutions
- End to End Architecture and realization
- Expertise in NRF based devices

Highlights

- Prototype to Production
- Wireless Technology – BLE
- Ultra low power SoC selection
- Firmware design to make use of deep sleep mode, and optimized flash write cycles & RAM retention to save sensor event log to avoid data loss when mobile is not in range
- Battery voltage sensing to alert user
- Advertisement every 2s





THANK YOU



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