Required Skills & Experience

- **Deep technical understanding of IoT sensor hardware**, including:
- **Circuit Design** and hardware technologies (e.g., microcontrollers, imaging sensors, analog/digital signal processing).
- **Lower-level algorithmic understanding** for sensor data acquisition, filtering, and calibration.
- **Ability to read and understand firmware coding languages** such as C, Python, Squirrel, and familiarity with embedded software development and debugging.
- **Good understanding of manufacturing and factory processes**, including:
- Design for manufacturability (DFM) and design for testability (DFT).
- Familiarity with PCB assembly, SMT processes, and end-of-line testing.
- Experience working with contract manufacturers, understanding of quality control, yield improvement, and root cause analysis for hardware issues.
- **Experience driving device testing**:
- Parametric testing (electrical, thermal, mechanical parameters).
- Field testing and simulation set-ups to validate device performance under real-world and edge-case scenarios.
- Ability to define test cases and acceptance criteria for hardware and firmware validation.
- **Understanding of cloud data pipeline technologies** used for device data reporting and analytics, including data ingestion, transformation, and storage (e.g., AWS IoT, Azure IoT Hub, MQTT, REST APIs).
- **Knowledge of LoRaWAN** and other wireless communication protocols relevant to smart building sensor networks.
- **Familiarity with building automation systems and integration protocols** (e.g., BACnet, ModBus, KNX).
- **Proven ability to translate business requirements into actionable user stories and technical tasks** for hardware and software teams.
- **Excellent communication and stakeholder management skills**, with the ability to bridge gaps between business and engineering teams.
- **Strong analytical and problem-solving skills**, with attention to detail and a proactive approach to identifying and resolving issues.

- **Self-motivated, adaptable, and able to manage multiple priorities** in a fast-paced environment.

Additional Technical Skills (Preferred):

- Experience with sensor calibration, environmental testing, and compliance standards (e.g., CE, FCC).
- Familiarity with device provisioning, OTA firmware updates, and device lifecycle management.
- Exposure to cybersecurity concepts as they relate to IoT devices and data privacy.

Behaviours & Mindset

- Solution-oriented and curious, with a drive to understand and solve technical challenges.
- Collaborative and inclusive, fostering teamwork across functions.
- Highly organized, detail-focused, and able to manage competing priorities effectively.
- Clear communicator, able to simplify complex technical concepts for diverse audiences.