

## Sr. Embedded Engineer (IOT domain) (Job code: SEE01)

INTELLIKONNECT Solutions Pvt. Ltd is a product development company pioneering in Smart City Solutions using internet of things to connect devices intelligently thus enabling a smart city infrastructure. It is a TVILIGHT Design Partner that is responsible for all the R & D activities of TVILIGHT.

We are looking for Sr. Embedded engineer position with **hands-on 80% coding** experience and 20% activities will require you to participate in code-reviews, problem-solving and processes. Your role will involve designing and developing wireless product portfolio (devices and gateway) for intelligent lighting and smart sensor applications.

This position is for IntelliKconnect Solutions Pvt. Ltd, Ahmedabad.

### Key Requirements

- Hands on experience in **developing firmware architecture** and **component selection** as per application needs like selecting MCU, EEPROM and other sensor interfaces. In-depth knowledge in defining Embedded software Architecture, gathering user requirements and converting into Software design HLD and LLD, comfortable working with UML use-case diagram, class-diagram and Sequence diagram to depict System architecture.
- **Should have spent at least 4 years in bare-metal programming** on 32-bit ARM cortex Microcontroller programming **on STM32** and should be aware of using STM32 peripherals such as **ADC, TIMERS, UARTs, NVIC configuration, Interrupt priority** understanding, power-saving Modes etc. Should be familiar with STM32 development tools, STM32 cube IDE, STM32 Libraries, debugging etc.
- Should be hands-on with coding in **Embedded-C programming on STM32**. Skilled in ARM assembly programming and decoding. Knowledge of python language in embedded coding for testing is an added advantage.
- Hands-on experience on communication protocols like **SPI, I2C, UART, WIFI, DALI, 1-wire, MODBUS** and UART.
- Should have knowledge working with any wireless stack such as **BLE-MESH** or Zigbee and should have worked on at least one project using one of these wireless stacks.
- Familiarity with NBIOT or LORAWAN or similar LPWAN protocols is an added advantage.
- Should be familiar with TDD (Test-driven-development) in Embedded software and knowledge in using either **FREERTOS or THREADX like RTOS for EMBEDDED**.
- Should be able to debug Hardware to get embedded software working on it along with good electronics knowledge and **knowledge on using tools like logic-analyzer, CRO, Multi-meter, Signal-generator etc.**
- Exhibit problem-solving and analytical thinking abilities. Should be system-level thinker. Able to learn and apply new state-of-the-art tools and techniques and thereby showing experience in quick prototyping methods followed by structured implementation.

## Be Familiar with

- Reading schematics, datasheets, technical reference manual and Silicon revision sheets
- Using tools like Logic Analyzer, DSO/CRO, Spectrum Analyzer.
- SW development tools: Confluence, JIRA, GIT, bit-bucket, SourceTree etc.

## Professional Qualities

- No 9-to-5 thinking; should be goal driven with solution-oriented mindset and should meet deadlines with customer first attitude.
- Entrepreneurial spirit and a team-player showing capability and flexibility to work in a multi-cultural team environment.
- Open to travel to Netherlands or other locations of TVILIGHT or its customers when required.

## Suitable Qualification

- Masters or Bachelors in Electronics/Embedded-ICT Software from reputed Engineering Colleges/IITs/BITS-Pilani.
- **Suitable Experience range:** 6 - 8Yrs

## Why Join us?

TVILIGHT is a European market leader in professional end-to-end lighting control solutions, with an installed base of over 250 projects in over 20 different countries. We specialize in delivering software, wireless devices and sensors to manage and control citywide lighting infrastructure. Tvilight's open software platform allows integrating a multitude of third-party applications and constituting a reliable, future-proof base for Smart Cities and IoT.

### Benefits:

- We offer a rewarding career opportunity working with our dynamic and experienced team in India, which thrives on customer satisfaction and value creation.
- Attractive compensation benefits such as Group medical insurance for self, spouse and 2 kids apart from providing a good work-culture
- Flat hierarchy that emphasizes creativity & excellence.

Work location : Ahmedabad, India

Apply : mail to [hr-india@tvilight.com](mailto:hr-india@tvilight.com)

**Note: When applying please state the JOB code in the Subject line**