

Microcontroller Programmer (Embedded Engineer) (Job code: EE01)

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 Microcontroller programmer for developing our production testers that will be used in Manufacturing/production process. You will be involved in making production testers using Arduino or equivalent MCUs for MASS PRODUCTION testing process. You will be required to code, debug, analyze, do code-reviews, engage in problem-solving.

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

Key Requirements

- Hands on experience in **developing firmware on ARDUINO and ARDUINO family or equivalent Microcontrollers.**
- **Should have spent at least 2 years in bare-metal programming** on any 8-bit ARM Microcontroller programming and should be aware of using different peripherals such as **ADC, TIMERS, UARTs, Interrupt priority** understanding, etc.
- Should be hands-on with coding in **Embedded-C programming & python programming for EMBEDDED**, preferably **python3.x** and familiarity with different python libraries for embedded development.
- Should be aware of python GUI – tkinter library and develop GUIs for Production testers.
- Hands-on experience on communication protocols like **SPI, I2C, UART, WIFI, DALI, 1-wire, MODBUS** and UART.
- Good to have knowledge in testing **BLE-MESH** or **Zigbee**.
- Good to have familiarity with **NBIOT** or **LORAWAN** or similar LPWAN protocols.
- Should be able to debug Hardware to get embedded software working on the microcontroller-based production tester setup 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

- Bachelors in Electronics/Embedded-ICT Software from reputed Engineering Colleges/IITs/BITS-Pilani.
- **Suitable Experience range:** 4+ - 6Yrs

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

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