



Job Title: Factory Firmware Engineer
Reporting to: Technical Project Manager
Starting salary: DOE

- **Quick career development opportunities**
- **Great perks package**
- **Put your name to the next big IoT products in the UK & USA**
- **Work with a talented and friendly team**
- **Lovely new office in London Bridge**
- **Genuine opportunity for a talented individual**

If you are a talented, innovative and ambitious Factory Firmware Engineer looking to play a key role in a successful and rapidly expanding start-up, we can offer you the challenge and opportunity that you are looking for.

The job will involve programming a variety of microcontrollers that either do not run an operating system or run a simplified Real-Time Operating System (RTOS) to produce firmware for wireless, visual and audio products, as well as interfacing to Cloud services via HTTP REST APIs.

We are not specifically looking for candidates with experience in visual/audio processing, however some knowledge would be helpful in acclimatising to the role and a willingness to learn is a must.

As programming will be performed at both a high and a low-level, we are looking for a programmer with very strong skills in 'C' programming, commenting and code debugging, and experience in basic electronics and use of microcontrollers (registers, pin configuration etc).

Secondary job activities will involve customer support of technical issues, firmware testing and deployment, contribution to documentation and progress reports along with other small tasks typical within a small development team where there is not always a clear division of roles/responsibilities.

The candidate must love programming and be enthusiastic in their work. The candidate should also be well organised, interface well in team meetings and present well to end-customers and distributors.

Background

Smarter is an award winning British connected home company with a product range that connects existing appliances to the internet, allowing you to control them from your phone. At Smarter we design, manufacture and distribute our products throughout Europe and the US with customers such as Currys, John Lewis and Best Buy. We are a passionate team of 30 people based in London with plans to expand the business globally. Growing at a rate of 300% we are set to become one of the fastest growing UK technology companies.

Email: recruitment@smarter.am

Registered company: 08608729

Core Skills/Experience

The following skills/experiences are considered a must in-order to be considered for employment:

- Very strong skills in 'C' language programming.
- Knowledge of HTTP REST protocols.
- Strong code organisation and planning, with code-control (Git, SVN) experience.
- Experience/capability in working without the use of higher-level libraries.
- Investigate technical aspects and root causes of problems
- Experience with consumer products
- Strong debugging capability (preferably in debugging microcontrollers).
- Strong commenting and documentation skills.
- Ability to learn and adapt to new architectures, both in hardware and in software.
- Ability to work co-operatively but independently within a small team.

Requirements

- Qualifications in:
 - Embedded software design
 - Hardware and electronics (or experience)
- Experience with connected devices (WiFi/Bluetooth)
- Experience in start-ups is desirable
- Must be detailed, organised and proactive
- Ambitious with passion and a ton of energy
- Enjoys a challenging and fast-paced environment
- A passion or interest for new consumer technology
- Ability to work on their own and as part of a team
- Excellent communication skills (verbal and written)
- Must have experience with working on products designed for mass production

Role Responsibilities:

- Write, develop and coordinate the updating and improvement of software and firmware for factory test equipment in conjunction with on-going product or process upgrades/changes such as ECN or deviation.
- Manage other test activities including test system/software for final product testing.
- Interface with new product development team to provide In-Circuit DFT feedback and to define testing requirements and test plans. Must be familiar with DFT tools.
- Monitor test yield, ensure that we achieve the expected first passed yield.
- Monitor defects rates.



- Support NPI builds, design and arrange build of test equipment. Knowledge of electronics is preferred but not essential.

Optional Skills/Experience

The candidate should have at least two of the following skills/experiences to be considered for employment, any additional skills/experiences may also work in a candidate's favour:

- Experience working with microcontrollers and/or other digital electronics.
- Experience with ARM products.
- Experience with Firebase or other NoSQL databases.
- Experience working with RF hardware and/or software.
- Experience programming with Real-Time Operating Systems (RTOS).
- Experience in firmware deployment.

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