

SENIOR FIRMWARE ENGINEER

You're interested in working at the forefront of IoT? Would you be you comfortable with a fast-moving firmware development and test environment and happy to give things a go? Do you have a great understanding of embedded development, electronics, their behaviour as well as an ability to deliver well-functioning code for IoT?

You'll be interested in this job because you're already working with IoT development for a software or IoT Tech company and you have a good grasp of what it takes to get the hardware running with excellent firmware. You have a deep understanding of the types of components used in connected devices and you have probably worked with quite a few of the ones related to IoT, but you need a new challenge?

Is Pycom where you go next?

Pycom is an Internet of Things technology company with a vision to give all connected ideas an opportunity to succeed. The company has pioneered an innovative IoT platform which is a unique suite of hardware and software products that connect developers, enterprises and consumers, creating an ecosystem between connectable things that removes barriers and reduces time to market.

Our DNA: a fast paced, growing IoT tech company with a great team, exciting portfolio and a fast-growing community of developers and enterprises craving our solutions.

Our Customers: a rapidly growing number of IoT developers, enterprises and education establishments in over 85 countries.

Our platform: a conventional Internet of Things platforms has nothing to do with what we deliver. Pycom offers brand-new ways to deliver IoT projects, fast.

What you'll do

Pycom has a portfolio of development boards that are maintained and continually developed further from a firmware and a network features point of view.

The main objective of this role is to support development of Pycom's firmware for the hardware portfolio including Pycom's development boards and OEM modules as well as customer projects and a new consumer proposition.

Including

- Write device firmware in C. This includes peripheral drivers code as well as communication stacks (TCP/IP, WiFi, Bluetooth, LoRa, SIGFOX and NB-IoT).
- Add new features and optimize the MicroPython virtual machine running on our modules.
- Design a Python APIs to control the rich peripherals available on our modules (SPI, UART, I2C, ADC, DAC, I2S, LoRa, WiFi, Bluetooth, WDT, Power Management, etc.).
- Influence our direction and use your skills to overcome challenges fast.
- Collaborate with the other Pycom teams to give feedback on concurrent activities and systems and contribute to defining visionary new features and services.

What we need from you

- A degree in Computer Science or Electronics Engineering, with RF/Radio content
- You are comfortable working autonomously and up for new challenges.
- Good C/C++ coding skills.
- Experience developing embedded software for 32 bit MCU platforms (ARM Cortex M3, M4 or similar). Both with peripheral drivers and application code.

- Experience with Make and the GCC tool chain.
- Comfortable with working on Linux environments.
- Comfortable with in an Agile environment.
- Knowledge of Test-Driven Development/Behavior Driven Development is desired.
- Strong team working and communications skills are required to ensure efficient interfacing between chip level design (FPGA or embedded firmware), board level design and PCB layout
- Ability to work in either Eindhoven, the Netherlands or in Bucharest, Romania

Highly skilled in following areas:

- Analytical self-driven problem solver
- Reactive to situation changes
- Basic Hardware Design
- Hands on Practical soldering of small SMD
- Knowledge of debug tools
- Schematic capture/layout tools and RF specific layout practices
- Must have excellent communication skills in written and spoken English

Useful to Have:

- Ability to analyze and understand RF test Results at varying degrees of detail level It is not just collecting the data but having the ability to make proactive assessment of it
- Knowledge of WiFi, BLE and advanced telecom standard is useful e.g. LTE, UMTS and/or other LPWAN technologies LoRa / Sigfox.
- Antenna design/testing and/or Antenna Tuner using experience is a plus
- Good appreciation of quality document control delivery & the ability to execute to it

Working at Pycom

- With guidance and direction from the Firmware Team Lead, you'll be working autonomously within a team of super smart, highly motivated and passionate people from all corners of the world
- You'll be surrounded by a portfolio of disruptive propositions that leverage the latest in hardware and software

- You'll be connected to a network of innovative eco-system partner and customer companies from all over the world
- You'll have knowledge sharing from the best developers and entrepreneurs in the IoT industry

Don't apply if

- You've never pushed code to GitHub and never used git
- You have not programmed for at least 2 years with C/C++ for microcontrollers
- You cannot read schematic circuit diagrams

If you like what you've just read and you think you could make a difference at Pycom, then challenge yourself by making an application.

Please fill in the JOB APPLICATION FORM at the bottom of the following page: www.pycom.io/jobs