

Employment Opportunity for an Embedded Software Engineer

Tyvak International S.R.L. is seeking new members to join their team to support software development, specifically in the area of embedded systems. Tyvak focuses exclusively on developing components and subsystems into highly-integrated and custom nano-satellite vehicles. The Team's skillset ranges from architecture, design, build, and test of major mechanical, electrical, and software subsystems integrated into small spacecraft.

Job Functions and Responsibilities

As an embedded software engineer, the candidate will join a collaborative team to develop innovative nano-satellite vehicle solutions for multiple projects. The individual will be responsible for software development during all phases of the software development cycle, including requirements, design, implementation, test, integration, and documentation in a fast-paced environment. Specific tasks will include:

- Working in a small team environment closely with hardware and system engineers to develop optimal solutions to complex problems
- Constructing, developing, and testing software applications, drivers, or middle-ware in a low-power embedded environment
- Participating in software requirements generation, design, implementation, and testing discussion with multiple team members
- Integrating developed software with hardware test platforms, preexisting software, and new software developed by other team members
- Maintaining new and preexisting software solutions to enhance feature sets and to consistently improve overall stability
- Participating in team discussions involving vehicle architecture and design for ongoing and future projects

Qualifications and Skills

Specialization in embedded software development, preferably with experience in mobile and low-power SOC platforms, such as OMAP, DaVinci, AVR, and SAM series. Additional experience developing bare-metal firmware with microcontrollers is desirable. The ideal candidate is highly motivated, self-starting, enthusiastic, and can perform duties autonomously.

- BS CS, CPE, EE, or equivalent degree required. MS in appropriate field (e.g., CS, EE) preferred
- Experience with and using standard electronics equipment required: oscilloscope, power supply, logic analyzer, etc.
- Experience with embedded OS development preferred, including but not limited to Linux and/or RTOS
- Experience with common open-source configuration management and test tools, such as subversion, git, mercurial, GDB, perf, valgrind
- Experience with open-source environments and development tools, such as Linux, GNU cross-compiler toolchains, and IDEs (e.g., Eclipse)
- Knowledgeable in the area of communication protocols at all layers, such as I2C, SPI, USART, and TCP/IP protocols
- High competency developing in C/C++ languages
- Familiarity with object-oriented design and programming
- Familiarity with iterative, agile, and waterfall software development processes
- Familiarity with major stages of the software development cycle, including requirements generation, construction, design, implementation, and test
- Excellent interpersonal skills and well-developed written and oral skills to effectively communicate and participate in discussions with other team members
- Ability to learn new processes and tools quickly and utilize them effectively

Proficient use of written and oral English language is mandatory

The main company office is located in **Torino, Italy**. Salary and benefits are market competitive. Position expected to be filled as soon as possible.

Please respond to HR@tyvak.eu and visit <http://tyvak.eu> for more company information.

Thank you.

