We are looking for:

Electronics & Embedded Systems Engineer / Technician (M/F)

About our company

IVM Technologies designs, develops, manufactures, and markets 3D reconstruction and underwater positioning solutions for the inspection of critical infrastructure and equipment. We are an innovative, technology-focused SME with a team of around twenty people.

Our products combine embedded electronics, sensors, machine vision, data acquisition, software, and mechanical engineering. They are deployed in demanding industrial environments around the world.

Why join us?

At IVM, you will join a company where you will work on complete systems, from the initial idea through to their deployment and use in the field. In particular, you will have the opportunity to:

- Take an active part in technology and technical decisions;
- See your developments move quickly from prototype to operational use;
- Work in a young, multidisciplinary team with a collaborative spirit;
- Enjoy a high degree of technical autonomy;
- Contribute to technologies that are transforming the industrial sector.

Job description

Reporting to the Technical Manager, you will be responsible for topics related to the electronics and embedded systems of our products. Your role will cover the entire development lifecycle, from understanding requirements through to design, prototyping, testing, integration, and further improvements.

You will work closely with the software, mechanical engineering, and production teams, as well as with our suppliers and industrial partners.

Your work will span the entire process, from electronic system architecture to fully operational embedded systems, including the development and validation of prototypes on test benches.

Main responsibilities

Design and development

- Analyze functional requirements and technical constraints.
- Define appropriate electronic system architectures.
- Select components and technologies.
- Design and/or modify electronic schematics.
- Contribute to the design and manufacturing follow-up of electronic boards.
- Propose improvements to enhance product performance, reliability, and manufacturability.

Development and integration

- Integrate and debug prototypes.
- Develop the test equipment and tools required for validation and production.
- Work closely with firmware, software, and mechanical engineering teams.
- Contribute to the validation of new architectures and functionalities.
- Support the industrialization process.

Analyze, troubleshoot, and improve

- Investigate malfunctions and identify their root causes, whether related to electronics, firmware, communications, power supply, or system integration.

Candidate profile

Above all, you are curious, autonomous, and passionate about technical systems.

You have a degree in electronics, embedded systems, or electrical engineering, or you are an experienced senior technician with strong hands-on field experience.

You have experience in the development, integration, or commissioning/debugging of embedded electronic systems.

You enjoy:

- Understanding a system as a whole;
- Turning a requirement into a concrete solution;
- Experimenting and prototyping;
- Working with different technologies;
- Understanding the interactions between electronics, software, and mechanical systems;
- Investigating the root cause of a complex problem rather than simply addressing its symptoms.

Experience in a technology-focused SME, engineering design office, robotics, instrumentation, marine, aerospace, or industrial systems environment would be particularly valued.

Required skills

- Analog and digital electronics.
- Reading and designing electronic schematics.
- Use of measurement equipment: oscilloscopes, multimeters, laboratory power supplies, etc.
- Understanding of embedded systems.
- Ability to analyze, troubleshoot, and debug electronic systems.
- Ability to work with electronic manufacturers and subcontractors.
- English: B1/B2 level.

Desirable skills

- PCB design: KiCad, Altium, or equivalent.
- Microcontrollers: STM32, ESP32, or equivalent.
- Communication buses and protocols: UART, SPI, I^2C, CAN, Ethernet.
- Embedded Linux.

- Networking.
- C/C++ or Python.
- Basic knowledge of EMC (electromagnetic compatibility).

You don't need to master everything. Above all, we are looking for someone with the ability to understand, learn, and propose solutions.

Position details

- Permanent full-time contract (CDI) – Marseille 13009, France.
- Employment status: Management-level employee (*cadre*) or ETAM, depending on profile.
- Location: Marseille 13009.
- Occasional travel may be required.
- Salary depending on experience: €38,000–€50,000 gross per year.

We also offer

- High-quality health insurance coverage.
- Meal vouchers.
- Employee savings plan / profit-sharing scheme.
- A strong focus on work-life balance.
- A human-sized working environment.