



WE'RE HIRING!

→ Firmware [Main Developer]

CAUTION
DO NOT TOUCH
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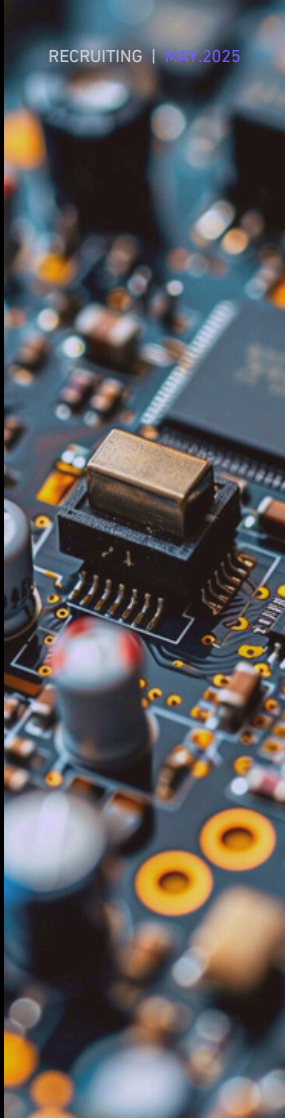


WE ARE LOOKING FOR A

Firmware Main Developer to join our team!

As a Firmware Main Developer, **you will be the owner and main responsible for all firmware development related to our ATHENA Nano propulsion system.** You will be in charge of the architecture design, implementation and continuous improvement of the firmware solutions, ensuring their functionality, reliability and safety.

This role requires a proactive engineer who can prioritize tasks effectively, work with agility, and take full ownership of firmware development. If you enjoy tackling open-ended technical challenges and working in an environment where your contributions have a direct impact, this role is for you!



Key responsibilities

- **End-to-End Firmware ownership:** lead the design, development, testing, and maintenance of firmware for our ATHENA Nano propulsion system.
- **Technical feasibility assessment:** evaluate design concepts and propose robust technical solutions.
- **Architecture design:** define and structure firmware components to create a modular, scalable, and maintainable system.
- **Testing and verification:** develop and execute both automated and manual tests to validate firmware performance and reliability.
- **System integration:** work closely with the hardware team to ensure seamless integration of firmware into our propulsion systems.
- **Technical reviews and documentation:** participate in design and milestone reviews, ensuring the highest quality and alignment with project goals.

Your team

You will be part of our **Electrical Engineering and Electronics team**, which is part of our Electric Propulsion department. This team is in charge of designing, testing, manufacturing and has the mission of continuous improvement of the electronic devices that enable thruster operation.

Qualifications & skills



MUST HAVE:

- At least 5 years of PROVEN experience in firmware development.
- Strong coding skills in C
- Knowledge in Real-Time Operating Systems (RTOS), specifically FreeRTOS.
- Experience on version control, specifically Git.
- Proficient in implementing and troubleshooting communication protocols such as I²C, SPI, and RS-422 for reliable data exchange between sensors, peripherals, and microcontrollers.
- Capability of reading PCB schematics.
- Experience in 8-bit, 16-bit and 32-bit MCUs, specifically those based Atmel Technology such as AVR MCUs and AVR ATmega MCUs.
- Strong problem-solving skills with the ability to prioritize tasks and work autonomously.
- Fluent in spoken and written English.



NICE TO HAVE:

- Experience in space applications or industries with strict safety/reliability requirements (medical, automotive, railway, avionics, etc.).
- Familiarity with MISRA C or other safety/reliability-oriented software guidelines.
- Familiarity with safety-life-cycle processes: hazard analysis, safety requirements, safety validation & verification.
- Notions in Python and C++
- Passion for space technology and a willingness to grow within a young, dynamic team.

Benefits & perks

- 🚀 **A key role in a pioneering space startup**, where you will directly impact the development of cutting-edge propulsion technology.
- 📅 **A full-time contract** of 40h per week.
- 🕒 **Flexible working hours**, allowing you to manage your schedule for better work-life balance.
- 🏠 **Hybrid work model**: work remotely up to 9 days per month.
- 🌲 **Extra holidays**: in addition to 23 vacation days, enjoy 6 additional days off during the Christmas period (from 24 December to 2 January, both included).
- 🏥 **Private health insurance**, fully covered by the company.
- 📚 **Learning & Development**: €1000 per year budget for training, courses, and professional growth.
- 💪 **Autonomy and responsibility**: your contributions will directly shape our technology and success.



Ready for takeoff? Email us at careers@ienai.space with [APPLICATION FIRMWARE MAIN DEVELOPER] in the subject line.