

Driving decarbonization and digitalization. Together.



Internship: Firmware Development with C and Rust (f/m/div)

Job description

You are a committed student from the field of Software Engineering, Computer Engineering, Electrical Engineering or similar and are looking for a new exciting student job? Infineon Power & Sensor Systems (PSS) delivers future-oriented solutions to provide cutting-edge data transport and to make tools and systems smarter, smaller, lighter and more energy-efficient. That is why you probably rely on our components every day when using devices like smartphones, chargers, coffee machines, cars, air conditioners, household aids, and much more. We are working on embedded software, which includes developing firmware for some of our products. These firmwares play a central role in our products, such as actually measuring CO2 with the PAS CO2 sensor. Come on board of our Embedded Software team in Graz to innovate together with us!

As part of our team, you will:

- **Investigate** the feasibility of **Rust for the PAS CO2 firmware** written in **C**
- **Experiment** with the **RTIC** and **Embassy RTOSes**
- **Participate** in **firmware development** for the **PAS CO2 sensor** in **C**
- Contribute to the **software quality by refactoring, testing, and code reviews**
- Collaborate with the team to **improve automatic testing with hardware**

Further Information

Type of employment: Temporary / Full-time or Part-time (flexible working hours from Monday to Friday between 6 a.m. and 7 p.m.)
Duration: min. 6 months

Profile

You successfully meet the requirements, if you are a motivated and committed student from the field of **Software Engineering, Computer Engineering, Electrical Engineering** or similar and additionally offer these skills:

- You are experienced with **C** or **C++** and preferably also have experience with **Rust**
- You have experience working on **embedded devices** or with **low-level code**

At a glance

Location: **Graz (Austria)**
Job ID: **HRC0940997**
Start date: **Oct 01, 2024**
Entry level: **0-1 year**
Type: **Full time / Part time**
Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0940997**
www.infineon.com/jobs



Contact

Lisa Derhaschnig
Recruiter



- You have a **structured approach** and are **motivated to learn new things**
- You have good **English** skills, both written and spoken

Please attach the following documents (German or English) to your application:

- Motivation letter
- CV
- Certificate of matriculation at a university
- Latest Transcript of records (not older than 6 months)
- Highest completed educational certificate (Matura certificate for Bachelor students, Bachelor certificate for Master students)
- Reference letter (optional)

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry (full-time), employment group B for bachelor students, employment group D for master students (<https://www.feei.at/wp-content/uploads/2023/05/minimum-salaries-white-collar-workers-2024.pdf>).

Benefits

- **Graz:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; On-site social counselling and works doctor; Health promotion programs; Discounted lunch possibilities; Private insurance offers; Corporate pension benefits; Flexible transition into retirement; Performance bonus; Accessibility, access for wheelchairs

Why Us

#WeAreIn for driving decarbonization and digitalization.

As a global leader in semiconductor solutions in power systems and IoT, Infineon enables game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT. Together, we drive innovation and customer success, while caring for our people and empowering them to reach ambitious goals. Be a part of making life easier, safer and greener.

Are you in?

– Power & Sensor Systems (PSS) drives leading-edge power management, sensing and data transfer capabilities –

Infineon **PSS** semiconductors play a vital role in enabling intelligent power management, smart sensitivity as well as fast and reliable data processing in an increasingly digitalized world. Our leading-edge power devices make chargers, adapters, power tools and lighting systems smarter, smaller, lighter and more energy-efficient. Our trusted sensors increase the context sensitivity of “things” and systems such as HMI, and our RF chips power fast and reliable data communication.

We are on a journey to create the best Infineon for everyone.

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.



[Click here](#) for more information about Diversity & Inclusion at Infineon.

Infineon Hub - Connect. Create. Challenge.

The iHub at TU Wien represents an inspiring tech platform, networking area and event location, connecting Infineon Austria with tech experts, science specialists and young professionals.

Check out our upcoming events:

[Infineon iHub](#)

