

Eaton Career Opportunity

We make big ideas work.

Lead Architect Embedded Linux (m/f/n)

The Technology Centre in St. Gallen, as a business unit of the Eaton PMCC - Industrial Controls and Protection business in Bonn, focuses on the development, production and sales support of automation products, software, and solutions, which are used by well-known machine and plant manufacturers worldwide.

As a Technical Architect Embedded Linux, you are an important role in our Embedded team within Automation and Digital Solutions (ADS)

You cooperate closely with System Engineers and Product Management team to define and implement the best technical firmware solutions for our Industrial Automation product families. You lead multiple engineers technically and you are responsible for the definition and deployment of the technology platform architecture throughout the full product life cycle.

If you are interested to become a part of this global team, apply today for this job!

Your responsibilities:

- Lead the architecture and design of embedded Linux systems for HMI PLC products.
- Define system requirements and specifications in collaboration with cross-functional teams.
- Develop and maintain system architecture documentation.
- Utilize Yocto Project to create and manage custom Linux distributions tailored to embedded product requirements.
- Optimize build systems and manage package dependencies.
- Ensure compliance with industry standards and best practices for Yocto-based systems.
- Drive the conceptual development of embedded platforms, including hardware-software integration.
- Develop and implement platform-level features and functionalities.
- Collaborate with hardware engineers to ensure seamless integration and performance optimization.
- Write, review, and maintain high-quality, maintainable code for embedded systems.
- Perform debugging, profiling, and performance tuning of embedded Linux applications.
- Ensure software meets reliability, scalability, and cybersecurity standards.
- Provide technical leadership and mentorship to engineers and global locations.
- Participate in project planning, estimation, and risk management.
- Communicate project status, challenges, and solutions to stakeholders.
- Stay updated with the latest trends and technologies in embedded systems and Linux development.
- Propose and implement improvements to development processes and tools.
- Foster a culture of innovation and continuous learning within the team.

Required qualifications and skills:

- An academic degree in Engineering or equivalent practical experience.
- 5+ years of experience in Linux/RTOS application engineering and software architecture
- Excellent software skills in embedded Linux and RTOS environment: architecture, design, and development
- Experience with defining an architecture and delivering according to that architecture

- Experience in Linux distribution build systems (Yocto)
- Experience in unit-testing, continuous integration, and version control (Git)
- Experience in software quality tools and standards
- Experience in M2M communication standards and platforms (TCP/IP, RestAPI, SNMP, MQTT, Modbus)
- Experience with working into an Agile team / environment (Scrum)
- Experience in issue tracking systems
- Knowledge of cybersecurity and data encryption
- Knowledge of embedded electronics (MPU/MCU) is a plus
- Full professional proficiency in English, German skills desired.

What Eaton offers:

- A highly engaged, motivated and innovative team of engineers
- Cross-cultural working environment
- Flexible work time
- Varied and exciting challenges
- Inclusion & Diversity - Openness to diversity widens our access to the best talent. Inclusion allows us to engage that talent fully.
- Great promotional opportunities – We encourage internal promotion, whenever possible.
- Learning & Development - We invest in our employees for the long term – not just with salary and benefits, but with ongoing learning and development opportunities

If you identify with this profile and would like to become part of a successful team, we look forward to receiving your application in our online portal at <https://eaton.eightfold.ai/careers/> (job number: 29499).

The next step is up to you!