

MOXZ GmbH



MOXZ is a tech company dedicated to shaping the future of wireless systems. Central to our work is our patented waveform, which uniquely enables communication and sensing/localization functionalities to operate simultaneously on the same frequency band (ISAC systems). Our cutting-edge solution is designed for dynamic applications such as trains, cars, and drones, delivering unparalleled throughput across the entire wireless spectrum with minimal bit error rates—even at speeds exceeding 500 km/h. Unlike conventional systems, our technology thrives in challenging industrial and GNSS-denied environments with reflective metal surfaces, making it an ideal choice for Indoor and Industry 4.0 applications. As a spin-off from the Technical University of Berlin, we work closely with leading institutions like Fraunhofer HHI, Caltech and UC Irvine to push the boundaries of wireless innovation.

Software Engineer (m/f/d) (Fulltime, 39h/week)

City: Berlin; Starting date (earliest): At the earliest possible;

Remuneration: 50.000-55-000

Working field

Your Tasks

- Develop and maintain C++ code for high performance communication and sensing software modules.
- Implement physical layer algorithms related to signal processing, localization, and data encoding/ decoding.
- Optimize for performance, numerical stability, and the efficient usage of computational resources across hardware platforms.
- Develop software for embedded systems with tight performance and memory constraints.
- Be open to exploring new technologies or contributing to other parts of the stack (e.g. implementing a browser-based interface) when needed.
- Write clean well-documented, and testable code in accordance with software development best practices.
- Participate in code reviews, debugging sessions and technical discussions.
- Contribute to rapid prototyping and experimentation on early state R&D projects.

Requirements

- 0-3 years of professional experience in software development. Please only apply if you are currently based in or are going to be located in Berlin, Germany.
- Strong foundation in C++ (preferably C++20).
- Solid understanding of computer science fundamentals (data structures, algorithms, resource management).
- Familiarity with multi-threading, concurrency, or real-time systems.

- Interest or experience in wireless communication and software defined radios (SDR), in writing high performance code, and creating maintainable software.
- Self-driven, willingness to learn quickly and take initiative in a fast-paced startup environment with a getting-things-done-mentality.
- BS/MS in Computer Science, Computer Engineering, Software Engineering or a related technical field.
- Fluent in English or German.

Bonus Skills

- Exposure to wireless communication systems or software-defined radios (SDR).
- Excellent communication skills in English; proficiency in German is a plus.
- Familiarity with scientific computing, real-time processing, or numerical algorithms.
- Experience with Linux systems and low-level debugging tools.
- Familiarity with Git, CMake, and continuous integration tools.
- Basic knowledge of Python or scripting for testing purposes.

What we offer

- A flexible and engaging working environment with a "fail fast, learn fast" mentality.
- A rare opportunity to work on frontier technology in a collaborative R&D-focused environment.
- Close mentorship from seasoned engineers and domain experts.
- Flexible working hours and a hybrid/remote-friendly culture.
- Access to cutting-edge labs, tools, and learning resources.

Application

If you are interested, send us your application to jobs@moxz.tech.

No need for a formal application letter, a few lines about yourself and a CV (PDF only) are sufficient.

More information at <https://stellenticket.de/198876/TUB/>
Offer visible until 04/12/25

