

Bliq GmbH



Bliq is a Berlin-based startup that develops driverless technologies for ridehailing and other forms of transportation.

Safety-Critical Systems Engineer - Driverless Vehicle (m/f/d)

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

Working field

We are seeking a highly skilled **Safety-Critical Systems Engineer** to join our advanced mobility team focused on developing a next-generation **driverless vehicle platform**. This role is central to building a **safe, robust, and certifiable control system** that ensures fail-operational behavior and safe fallback strategies in case of system failures.

You will be responsible for the architecture, development, and validation of **safety microcontroller (MCU) subsystems** and **critical control interfaces**, ensuring compliance with automotive safety standards such as ISO 26262. Experience with **power steering systems, brake actuators, and ADAS components** is highly desirable.

Requirements

Key Responsibilities

- **Design and implement safety-critical subsystems** based on ASIL-D compliant MCUs to monitor and control the vehicle in case of primary system failure (e.g., main compute failure).
- Collaborate with hardware, software, and systems teams to define safe architecture for **driverless operation**, including emergency braking and failover mechanisms.
- Develop and validate system safety concepts, technical safety requirements, and software safety mechanisms [in accordance with **ISO 26262**].
- Integrate and validate safety MCUs with **vehicle CAN and sensor networks**, ensuring seamless interaction with power steering, braking, and ADAS subsystems.
- [optional] Perform **FMEA, FMEDA**, and safety analysis to support functional safety case documentation.
- Interface with suppliers of **power steering ECUs, brake systems, and ADAS sensors** to ensure compatibility with safety goals.

- Develop testing procedures and HIL setups to verify and validate system-level safety performance.

Required Qualifications

- Bachelor's or Master's degree in Electrical Engineering, Computer Engineering, Automotive Engineering, or a related field.
- Strong experience with **CAN/CAN-FD**, fault diagnostics, watchdog design, and state machine control.
- Experience working with **power steering systems, brake control units, or ADAS ECUs**.
- Strong debugging and system-level problem-solving skills.
- Excellent communication skills

Preferred Qualifications

- Experience with **autonomous systems**, teleoperation, or robotic vehicle control.
- Deep understanding of **ISO 26262**, automotive safety lifecycle, and compliance documentation.
- Proven experience with **ASIL-B to ASIL-D** MCU development (e.g., Infineon AURIX, NXP S32).
- Understanding of **redundant communication systems** and **power architectures** in automotive.
- Hands-on experience with **HIL testing**, test automation, and fault injection.

What we offer

- Opportunity to work on cutting-edge automotive and robotics technology.
- Flexible working environment with remote options.
- Dynamic team of engineers passionate about mobility innovation.
- Competitive salary and equity participation for the right candidate.
- Work directly with the CTO and founders.

Application

Please send your CV and a brief statement about your motivation to julian.glaab@bliq.app

More information at <https://stellenticket.de/196279/TUB/>
Offer visible until 25/08/25

