

# SYSTEM ENGINEER INTERNSHIP FOR AUTOMATED VEHICLE MARSHALLING

## 1 role in Garching bei Munchen, Germany

Embotech is an award-winning software scale-up developing cutting edge autonomous driving technology and solutions for autonomous vehicles, with focus on private ground applications such as trucks at port terminals and passenger cars in factories. We are delivering safe autonomous transportation by leveraging the real-time optimization technology that we have been developing since 2013.

We are looking for an intern who is passionate about building and optimizing complex systems. Join our Automated Vehicle Marshalling (AVM) Systems team to develop and deploy full-stack autonomous driving systems for passenger cars in factories. You'll work with Embotech's core autonomous driving technology and components provided by external suppliers. Your contributions will involve developing, integrating, and testing autonomous driving components and the full-stack system in simulation and on our test vehicles.

Join us at Embotech for an exciting internship in a fast-growing company with attractive conditions and flexible hours. You'll be part of a dynamic and international team, working alongside highly skilled colleagues passionate about excellence and efficiency. We're looking for motivated individuals to help us tackle one of the world's most complex challenges and propel our company forward.

### Responsibilities:

- Develop innovative algorithmic solutions
- Design and implement robust embedded systems
- Develop and work with automated testing tools for system-level verification
- Integrate and test system components in real-world environments
- Collaborate with system architects, software and hardware engineers

### Requirements:

- Bachelor degree in computer science, engineering, or robotics
- Strong understanding of control theory, system dynamics and network theory
- Knowledge of system modelling and analysis techniques
- Familiarity with various programming languages (e.g. Python, C++, Rust)
- Experience with system-level design and implementation, including hardware and software integration
- Experience with real-time systems (RTOS) and embedded systems development
- Excellent communication skills in English
- Ability to adapt to changing priorities and requirements
- Strong problem-solving and analytical skills
- Ability to work effectively in a team environment

Duration of the internship: 6 months

Starting date: ASAP

We look forward to receiving your application documents (resume, cover letter & reference letter) by email:  
[careers@embotech.com](mailto:careers@embotech.com)

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