Welcome to **NEURA Robotics**, the innovator of the robotics world. Our goal is to equip collaborative robots with groundbreaking cognitive capabilities to enable safe and intuitive collaboration with humans. Under the leadership of founder David Reger, we have spent the first years of **NEURA Robotics** laying the foundations for humans and robots to work hand in hand.

"We serve humanity" is not just a motto, but our mission. Become part of our ambitious, international company and shape the future of robotics with us.

Welcome to **NEURA Robotics** - where innovation meets team spirit.

Your mission & challenges

As a Robotics Control & System Integration Engineer, you will actively shape the future of our robotic systems. You will develop and implement control algorithms for drive-level and motion control, design system architectures for production-oriented applications, and analyze the performance of our systems in a holistic context. Working closely with interdisciplinary teams, you will ensure the seamless integration of new technologies into our Smart Factory production processes.

Your main tasks include:

- Develop and implement control algorithms (e.g., PID, model-based approaches) for drive-level control systems

- Integrate and verify new motor control and encoder technologies in production environments

- Program embedded systems in C/C++ using real-time operating systems and fieldbus communication (e.g., EtherCAT)

- Design and maintain system architectures for robotic applications based on Linux (Debian)

- Set up and operate CI/CD pipelines (e.g., GitLab CI, Jenkins) for embedded and robotic systems

- Use containerization tools like Docker or Podman for flexible software deployment

- Ensure IT security in production-related environments

- Analyze robotic systems in the context of mechanics, electronics, and software

- Acquire and evaluate measurement data using Python or MATLAB to optimize system performance

- Collaborate with hardware testing teams for integration and validation of new components

- Develop interfaces between robotic systems and manufacturing execution systems (MES)

- Apply signal processing and sensor technologies (e.g., force/torque sensors, encoders, cameras)

- Consider lean production principles and safety standards (e.g., ISO 10218, IEC 61508)

What we can look forward to

- Master's degree in Mechatronics, Computer Science, Robotics, or Control Engineering

- Professional experience in the development of robotics or automation systems is a plus

- Solid knowledge in drive technology, control systems, embedded programming, and system integration

- Experience with production automation and interfaces to MES systems

- Strong analytical thinking, structured working style, and excellent problem-solving skills

- Team player with strong communication skills and a high level of quality awareness

- Excellent German and English skills (C1 level), both written and spoken
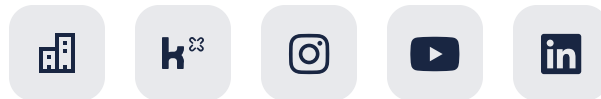
What you can look forward to

- Become part of an agile company, actively shape topics and benefit from flat hierarchies in a highly motivated team

- Enjoy an attractive salary, flexible working hours and 30 days of vacation

- The freedom to contribute your own ideas and drive them forward

- Celebrate successes together with company events

- Take advantage of our corporate benefits program

- And even more fun with great colleagues

Apply

We are looking forward to meeting you and shaping the future of robotics together. Are you in?

Couldn't find a suitable position? Please send us an unsolicited application.
We are always looking for passionate tech enthusiasts to help us revolutionize the world of robotics!

NEURA
ROBOTICS