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

NEURA Robotics is pioneering the new age of cognitive robotics. We build robots with the ability to see, hear, feel, and collaborate with humans in any environment. Our mission is to combine artificial intelligence and robotics to create intelligent assistants that empower humanity. We are looking for a highly skilled engineer to develop the critical data backbone for our groundbreaking platforms.

We are seeking an experienced Software Engineer specializing in real-time communication middleware and embedded systems. The ideal candidate will be an expert in designing and implementing the high-performance software interfaces that connect our computer vision perception stack with our core processing units. You will be responsible for ensuring the robust, low-latency, and high-throughput flow of data across our distributed embedded systems, with a primary focus on middleware like FastDDS. This role is critical for enabling our cognitive robots to perceive and react to the world in real-time.

- You will design and implement the communication architecture by architecting and developing real-time data pipelines for our embedded systems using publish-subscribe middleware such as FastDDS.

- You will integrate and configure DDS/RTPS frameworks in depth to meet strict performance requirements for bandwidth, latency, and reliability.

- You will profile, debug, and optimize the entire data flow, from camera sensors and computer vision algorithms through the communication stack to actuator controllers.

- You will write clean, efficient, and maintainable C++ code for our embedded Linux and/or RTOS-based platforms.

- You will collaborate closely with computer vision engineers to define data types and Quality of Service (QoS) policies, and with hardware engineers to ensure seamless software-hardware integration.

- You will diagnose and resolve complex system-level issues related to timing, race conditions, and network performance.

What we can look forward to

- You hold a Bachelor's or Master's degree in Computer Science, Robotics, Electrical Engineering, or a related field.

- You have more than five years of professional software development experience with modern C++ (C++14/17/20).

- You have proven, hands-on experience with a Data Distribution Service (DDS) implementation, preferably FastDDS, and you possess a strong understanding of the RTPS protocol.

- You have solid experience in embedded systems programming, including development on resource-constrained targets (SoCs, MCUs) using Embedded Linux, QNX, or an RTOS.

- You are familiar with computer vision concepts and data flows, such as image streams, point clouds, and object detection metadata.

- You have a strong understanding of networking concepts (UDP, multicast) and real-time systems principles.

- You have experience with ROS 2, which is considered a significant advantage.

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

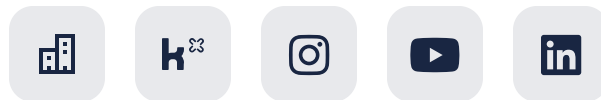- Enjoy an attractive salary, flexible working hours and 30 days of vacation

- 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!