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

We are engineering a high-density, multi-axis robotic actuation system with integrated sensing and on-board perception. You will own the electronics for the core actuation units, power management, and sensor interfaces: control boards, sensor front-ends, and the physical bridge to our embedded and AI stack. You'll work side-by-side with the founder and the engineering team to take the system from concept to EVT/DVT and into small-series production.

- Own the electronic architecture for the multi-axis system and peripheral controllers:
  - Central controller board based on high-performance ARM Cortex-M7/M85.
  - Distributed BLDC motor drive boards (ARM Cortex-M33 class controllers).
  - Power distribution from a 48 V bus, including DC/DC conversion and protection.

- Design mixed-signal PCBs (2–8 layer range): schematics, layout, bring-up, and test.
- Integrate and interface encoders, tactile arrays, ToF sensors, IMUs, flex sensors, and cameras.
- Work with firmware engineers on 1 kHz motor control loops, sensing requirements, and safety features.
- Define test setups, fixtures, and validation plans for your boards.
- Iterate on early prototypes (hand-soldered & lab-hacked) and converge on DFM/DFA-ready designs.
- Contribute to EMC, safety, and reliability strategies for the full electromechanical system.

What we can look forward to

- 4+ years in electronics design for robotics, motion control, industrial, or similar domains.
- Strong experience with BLDC motor drives (gate drivers, current sensing, shunt/INA, layout for power stages).
- Hands-on with mixed-signal PCB layout (Altium/KiCad or similar), including grounding, separation of power/logic, and EMI-aware routing.
- Confidence designing around ARM MCUs/SoCs, high-speed interfaces (SPI, CAN-FD, Ethernet, MIPI/CSI, or LVDS), and sensor front-ends.
- Comfortable in the lab with scopes, logic analysers, power supplies, and quick rework.
- Ability to work closely with firmware and mechanical teams on packaging, harnessing, and testability.
- Experience with dual-core ARM implementations or high-performance motor control ICs.
- Previous work on high-density electromechanical assemblies or cobot end-effectors.
- Exposure to functional safety concepts (STO, redundant sensing, safe torque off).

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