



TOUHLABRobotics

GIVING ROBOTS THE POWER OF HUMAN TOUCH

Senior Electronics Engineer

Location: Edinburgh, Scotland

Company: Touchlab Limited

Salary: Competitive

Employment Type: Full-time

About Us:

Touchlab is at the forefront of robotics innovation, specialising in advanced tactile sensing technology for robotic applications. We develop cutting-edge electronic and embedded systems to enhance human-robot interaction across industries such as healthcare, industrial automation, and teleoperation.

Be part of a pioneering company that is shaping the future of robotics and tactile sensing across the world.

Job Description:

We are seeking an experienced **Senior Electronics Engineer** to join our dynamic team.

This role will involve the full product lifecycle, from concept development to manufacturing support, working on revolutionary sensor technology and robotics applications. We are looking for an adaptable individual that thrives in a fast-moving environment.

Key Responsibilities:

- **Electronics Design & Development:** Lead the design and development of digital and analog electronic systems, including system architecture, schematic capture, PCB layout, prototyping, and testing.
- **Embedded Systems & Firmware:** Collaborate with firmware and software engineers to develop embedded systems for real-time robotics applications.
- **Power & Sensor Integration:** Develop power supply designs, motor control systems, and sensor integration solutions for robotics applications.
- **High-Speed Communication & Signal Processing:** Work with high-speed memory interfaces, RF communications, and data acquisition systems.
- **Compliance & Testing:** Ensure designs meet industry standards such as CE, FCC, LVD, and ISO13485 for medical applications. Conduct EMC testing and validation.
- **Manufacturing & Production Support:** Work with contract manufacturers (CEMs) to oversee design transfer, production testing, and quality control.
- **Mentorship & Team Collaboration:** Support junior engineers, provide technical guidance, and contribute to best practices in electronics and embedded system development.

Key Skills and Qualifications:

- Degree in **Electronics, Electrical Engineering**, or a related field.
- **10+ years** of experience in electronics design, including system architecture design, schematic capture and PCB layout (preferably using Altium Designer).
- **Proficiency in circuit analysis and simulation**, with experience using tools such as SPICE (LTspice, PSpice), MATLAB Simulink, Keysight ADS, Altium CircuitMaker, or ANSYS Electronics for electronic system architecture evaluation, signal integrity analysis, and performance optimization.
- Strong background in **embedded MCU and processor platforms** (ARM Cortex, ESP32, etc.).
- Experience with **high-speed digital circuits, analog signal processing, and RF communications**.
- Familiarity with **motion control systems, robotics, and industrial automation**.
- Knowledge of **power electronics, motor drivers, battery management systems, and LED/laser modulation**.
- Understanding of **EMC compliance, safety standards, and regulatory approvals**.
- Hands-on experience with **SMT assembly, prototyping, and lab equipment usage**.
- Excellent problem-solving skills, ability to work independently and as part of a multidisciplinary team.

Desirable Skills

- Experience with **robotic sensing technology, teleoperation systems, or haptic feedback solutions**.
- Knowledge of **Linux-based embedded development** and real-time operating systems (RTOS).
- Experience working with **medical devices, agritech, or industrial control systems**.

- Exposure to **deep learning applications for sensor data processing**.

What We Offer:

Innovative Environment: Work on cutting-edge technology with a team of passionate engineers and scientists.

Professional Growth: Opportunities for career development and continuous learning in a rapidly evolving field.

Professional Development: Access to training programs, conferences, and courses to enhance your skills (personal budget allocation of £1k/annum).

Competitive Compensation: A comprehensive benefits package including generous family policies, competitive salary and flexible working hours.

Impactful Work: Be part of a pioneering company that is shaping the future of robotics and tactile sensing.

Holidays: 30 days annual leave, increasing by 1 day per year totalling to 5 years.

Bike2Work Scheme for Tax off Bicycles.

Free Coffee, drinks, Beer, and Snacks (we have a Fridge and our own coffee machine which are always stocked)

If you are interested in working with us, get in touch.

Email **hiring@touchlab.io** including your CV and Introduction

Visa sponsorship is available for overseas skilled workers.

We are an Equal Employment Opportunity (EEO) employer and do not discriminate on the basis of race, colour, national origin, religion, gender, age, veteran status, political affiliation, sexual orientation, marital status or disability.