

## Job Posting: Embedded Systems Engineer

**Location:** Watertown, MA | **Full-Time** | **Start Date:** February 15, 2025

### About Us:

Tatum Robotics is creating assistive robotics that transform lives. We specialize in developing 3D printed humanoid robotic systems designed to empower the DeafBlind community. Specifically, we are developing a tactile signing robot that will give the DeafBlind community first time access to independent communication.



We are seeking a highly skilled **Embedded Systems Engineer** to join our team in Boston. This role is an opportunity to work on projects that push in designing collaborative robotics and make a meaningful impact. This will start as a 6-month contract to hire position.

### Responsibilities:

- Lead the design, development, and implementation of board-level design and front-end circuitry for humanoid robotic systems, including schematic capture, PCB layout, and component evaluation.
- Develop and optimize custom I2C device drivers to integrate haptic motors, enhancing tactile feedback through innovative vibration pattern designs.
- Automate device driver initialization using Linux systemctl services and timer files to improve system bring-up and reduce downtime.
- Design and maintain embedded firmware in C/C++, following industry-standard software development lifecycle practices.
- Improve power management board efficiency through design iterations, testing, and validation in an Agile environment.
- Streamline software integration releases by implementing automated testing pipelines for rapid and consistent deployment.

### Requirements:

- Bachelor's or Master's degree in Electrical Engineering, Computer Engineering, or a related field.
- Proficiency in Embedded C/C++ and experience with Linux-based systems.
- Hands-on experience with **Raspberry Pi**, I2C protocol, device driver development, and haptic systems.
- Expertise in **PCB design** and layout using tools like Altium or similar software.
- Strong understanding of power management systems, including efficiency optimization and unit testing.
- Experience in Agile development environments and familiarity with automated testing frameworks.
- Excellent problem-solving skills and attention to detail.

### What We Offer:

- Opportunity to contribute to cutting-edge robotics technology with meaningful societal impact.
- Collaborative and inclusive small team environment (4 FT staff).
- Starting salary between \$60,000- \$65,000 and 3-weeks PTO.
- Professional growth opportunities in a fast-paced, innovative startup.

### How to Apply:

If you are passionate about robotics, enjoy solving complex engineering challenges, and want to make a difference, we would love to hear from you! Please send your resume and a cover letter to [hello@tatumrobotics.com](mailto:hello@tatumrobotics.com) with the subject line "Embedded Systems Engineer Application."

Tatum Robotics is an equal-opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.