Hardware Training System Engineer

Internship (Full-Time) – Building Hands-On Hardware Training Systems

(Voluntary or Part of Study Program, 3–6 months, starting Nov/Dec 2026 | Offenburg | Onsite | IICT GmbH)

About Us

IICT GmbH offers a complete training system — **one connected learning ecosystem, from training hardware to guided experimentation**. IICT GmbH combines **physical training systems, remotely accessible virtual labs, and structured hands-on courses** into one practical learning pathway across **IoT, 5G/6G, and Embedded AI**, giving SMEs and academic institutions access to next-generation connectivity technologies & testing environments. Join our dynamic team and help shape the future of connected technologies.

More details:
www.ii-ct.com
www.iict-training.com

Role & Responsibilities

As a **Hardware Training System Engineer Intern**, you will work closely with our **engineering and training teams** to **design, build, and assemble hands-on hardware training systems**. You will bridge the gap between **mechanical/electrical design and practical instructional hardware**, turning technical concepts into **robust learning setups**. Your tasks include:

Hardware Design & Prototyping

- Design, 3D model (CAD), and prototype custom **mechanical and electrical hardware components, enclosures, and mounting solutions** for training rigs.
- Use **3D printing, rapid prototyping, and workshop manufacturing** techniques to fabricate custom parts and learning modules.
- Handle hands-on **assembly, wiring, and integration** of electrical, mechanical, and sensor components (including basic custom PCB layout or prototyping where applicable).

Component Selection & Vendor Management

- Evaluate, select, and source **off-the-shelf mechanical, electrical, and automation components** based on learning system requirements.
- Research vendors, evaluate supplier specifications, compare manufacturing techniques, and optimize component selection for **cost, reliability, and lead time**.

Platform & Learning Hardware Support

- Set up, test, and calibrate **physical hardware platforms, testbeds, and educational rigs** to ensure safe and reliable operation.
- Collaborate with **Subject-Matter Experts (SMEs)** to align hardware capabilities with learning goals and practical lab exercises.
- Document **assembly processes, bills of materials (BOM), schematics, and maintenance guides** to support knowledge transfer.

Qualifications & Requirements

- Currently pursuing, or recently completed, a **Bachelor's or Master's degree** in **Mechanical Engineering, Electrical Engineering, Mechatronics, Industrial Engineering**, or a related field.
- Hands-on background with **manufacturing systems, MakerLabs, FabLabs, or student project teams**.
- Solid experience in **3D CAD modeling** (e.g., FreeCAD, Fusion 360) and practical **additive manufacturing (3D printing)**.
- Strong fundamentals in **mechanical assembly, electrical wiring, component selection**, and practical workshop tools.
- Understanding of **manufacturing techniques, vendor selection, and hardware sourcing**.
- Experience or interest in **PCB design and layout** (e.g., KiCad, Altium, Eagle) is a plus.
- Interest in **educational hardware design and knowledge transfer** — experience with educational trainer systems is a plus.
- Good written and spoken **English**; German language skills are a plus.
- Valid work/internship permit to take up an internship in Germany.

What We Offer

- Hands-on experience building **real training systems and testbeds** for IoT, 5G/6G, and Embedded AI, alongside experienced engineers and SMEs.
- Direct mentorship in **hardware design, prototyping, and educational system development**.
- A **flexible internship format**: voluntary or as part of a study program, for **3–6 months**, starting **November/December 2026**.
- A **certificate of internship** and the possibility of a follow-on role at IICT GmbH based on performance.
- A collaborative, international, research-driven environment spanning **technical development and training/learning design**.
- Access to **state-of-the-art hardware, labs, and testbeds**, **onsite** at our **Offenburg office**.

To apply, please send your CV and a short motivation letter to jobs@ii-ct.com
We are already looking forward to your application!