Sapien-Tech

INTERNSHIP • 4 MONTHS

Electronics Engineer

Device Assembly, Bring-Up & Data Testing

Location	Remote-first (occasional on-site / lab days may be arranged)
Type	Internship — full-time hours
Duration	4 months
Compensation	Unpaid internship
Reports to	Ali Alhubaishi, CEO & Founder

About the Role

Join Sapien-Tech as an Electronics Engineering intern and help us build and test our condition-monitoring devices for industrial machines. You will assemble units, program the microcontroller using the Arduino framework, and run the tests that prove each unit works before it ships. This is a hands-on, test-focused role: you will be mentored, given real tasks, and your work will feed directly into live customer hardware.

The internship is remote-first — we ship you the development kits and boards you need. For some hardware bring-up and bench testing, occasional on-site or lab days may be arranged.

What You'll Do

BUILD & PROGRAM

- Assemble sensor units — soldering, rework, and mechanical assembly.
- Flash and configure firmware on the microcontroller using the Arduino framework.
- Bring up new boards: power them safely, check rails, and confirm they start and read the sensor.

SENSOR & DEVICE TESTING

- Test the sensors and confirm the readings are correct.
- Run bench tests with lab equipment (multimeter, oscilloscope, bench power supply).
- Build simple, repeatable test setups and pass / fail checklists so anyone can re-run them.

DATA & QUALITY

- Capture data from the device and check it for accuracy and consistency.
- Document test results clearly and report findings the team can act on.
- Support quality checks as devices move toward small production batches.

What We're Looking For

- Studying towards (or recently finished) a degree in Electronic / Electrical Engineering or similar.
- Some hands-on programming with Arduino / microcontrollers (or real eagerness to learn).

- Comfortable soldering and using basic lab tools.
- Solid grasp of analog and digital circuit basics.
- Careful, organised, and good at writing things down.

Nice to Have

- Projects with Arduino, microcontrollers, or single-board computers (e.g. Raspberry Pi).
- Experience with sensors of any kind.
- Familiarity with a PCB tool (KiCad, Altium, or Eagle).
- Experience with version control (Git).

What You'll Gain

- Real project experience on hardware, firmware, and data that ships in live products.
- One-on-one mentorship from senior engineers.
- A finished project you can show in your portfolio.
- A reference letter on completion, and a possible path to a full-time role.

How to Apply

Send your CV and a short note about a project you've worked on to info@sapien-tech.io. If you have a portfolio, GitHub, or project photos, include them — we care more about what you've built than perfect grades.

Sapien-Tech is an equal-opportunity employer. We welcome applicants of all backgrounds.