

HairFit - Hardware Engineering & Product Development



HairFit is developing a professional-grade hair sensing device designed to measure the physical properties of hair and turn them into meaningful, objective data. We are building a compact hardware and software system that combines sensor technology, physical measurement and data analysis to better understand individual hair characteristics. Our goal is to move beyond subjective hair assessments by creating a reliable way to measure hair properties and translate those measurements into useful insights through the HairFit platform.

Junior Hardware Engineer - Sensors & Prototyping

Join HairFit in Berlin and help build a professional-grade sensing device from prototype to reliable product.

City: Berlin; Starting date (earliest): At the earliest possible; Remuneration: Paid position; remuneration to be discussed based on experience and qualifications; Reference number: ELHF2022; Closing date: 13/10/26

Tasks

HairFit is developing a professional-grade hair sensing device designed to measure physical properties of hair and turn them into meaningful, objective data.

We are looking for a hands-on Junior Hardware Engineer to work directly on the development, testing and improvement of our prototype.

Your tasks will include:

- Building, assembling and iterating electronic prototypes
- Soldering components, connectors, wires and prototype PCBs
- Integrating and testing sensors and other electronic components
- Working with microcontrollers and data-acquisition electronics
- Troubleshooting and debugging hardware and electrical issues
- Testing different sensors, components and prototype configurations
- Setting up repeatable physical measurements and calibration procedures
- Investigating measurement noise, inconsistencies and sources of error
- Running experiments across different hair samples and documenting the results
- Supporting PCB, wiring and electronic design improvements
- Working alongside our software/data work to reliably capture and process sensor measurements
- Helping move the HairFit device from an early prototype toward a robust and repeatable system

Requirements

We are primarily looking for a recent graduate or someone close to completing a degree in Electrical Engineering, Electronics, Mechatronics, Embedded Systems, Sensor/Masurement Technology, Engineering Physics, Biomedical Engineering, or a

related field.

You should enjoy working hands-on with real hardware and be comfortable building, testing and troubleshooting things yourself.

Experience in some of the following would be particularly valuable:

Soldering and electronics assembly

Breadboarding and electronic prototyping

Sensors and sensor integration

Microcontrollers such as Arduino, ESP32, STM32 or similar

Reading schematics and electronic component datasheets

Analog and digital electronics

Using multimeters, oscilloscopes or other laboratory equipment

Data acquisition, ADCs and measurement systems

Basic PCB design or PCB assembly

Embedded programming in C/C++ or similar

Python for collecting or analysing experimental data

CAD, 3D printing or mechanical prototyping

You do not need experience with everything listed above. University projects, thesis work, robotics, Formula Student, internships and personal electronics projects are all relevant.

More than anything, we are looking for someone curious, practical and excited about solving problems at the intersection of hardware, sensors and physical measurement.

What we offer

A paid, full-time opportunity in Berlin

Significant technical ownership from an early stage

The opportunity to work directly on the core technology behind HairFit

Hands-on experience developing a new physical product from prototype onward

Close collaboration with the founder and technical team

Freedom to experiment, test ideas and influence engineering decisions

Exposure to hardware, sensor technology, data collection and product development

An environment where your work can have a direct and visible impact on the product

HairFit is still at an early stage, so this role is particularly suited to someone who wants responsibility early in their career rather than working on one small component within a large engineering organization.

Application

Please send us your CV along with a short introduction about yourself.

We would particularly like to hear about one hardware, electronics or engineering project you have personally worked on. Tell us what you built, what your role was and one technical problem you had to solve.

Personal projects, university projects and prototypes are very welcome — we care about what you can build, not just previous job titles.

Please send your application to:

rasanebabalwa@gmail.com

Subject: Junior Hardware Engineer – HairFit

More information at <https://stellenticket.de/206959/FUB/>
Offer visible until 02/10/26

