

Embedded Systems & Sensor Algorithm Engineer (Early-Stage Contract)

About the Role: We are an early-stage hard-tech startup building next-generation motion-tracking wearables. We are looking for an execution-driven, hands-on Embedded & Sensor Algorithm Engineer to spearhead our alpha build stage.

Your mission is to take our functional proof-of-concept, integrate and drive custom PCB/sensor modules, eliminate hardware noise, and push our alpha prototype across the finish line for real-world field testing.

Responsibilities:

1. Own firmware architecture, custom module integration, low-level driver development, and low-power BLE communication for our alpha hardware nodes.
2. Develop, tune, and deploy motion tracking, noise filtering, and orientation algorithms to ensure low-latency, high-fidelity data streams.
3. Rapidly iterate through the alpha stage to refine hardware performance and deliver a clean, mountable, production-ready build.
4. Collaborate directly with the team to establish technical architecture, optimize power management, and finalize the core hardware stack.

Requirements:

1. 3 to 6 years of hands-on experience designing and shipping embedded hardware, IoT devices, or smart wearables.
2. Deep proficiency in C/C++ programming, with robust experience in microcontroller driver development (e.g., ESP32, Nordic nRF series), custom sensor module integration, and peripheral bus communication (I2C, SPI, UART).
3. Solid mastery of BLE communication protocols, connection stability, and mobile data packet handling.
4. Practical background working with inertial measurement units (IMUs), sensor fusion, motion algorithms, or sports telemetry hardware.
5. High bias for action, comfortable with early-stage hardware iteration cycles, and able to work independently with minimal oversight.

Compensation & Perks:

- **Contract-to-Hire:** The initial alpha-stage sprint operates on an agreed short-term contract framework.
- **Growth Pathway & Visa Support:** Structured to transition into a full-time, long-term salaried technical role as we expand our hardware operations. For the next stage, we can offer Hong Kong employment visa sponsorship for qualified candidates.

How to Apply: Send your CV or portfolio to hiring@schoenerhafen.com.

嵌入式与传感器算法工程师（早期项目合同制）

岗位简介： 我们是一家处于早期阶段的硬科技初创企业，致力于打造新一代运动轨迹追踪穿戴设备。现急需一位执行力极强、动手能力过硬的嵌入式与传感器算法工程师加入我们的 Alpha 原型攻坚阶段。

你的核心任务是将现有的功能验证原型（POC）进一步升级，完成定制 PCB/传感器模块的集成与驱动开发，彻底解决硬件数据噪声，推动 Alpha 原型顺利冲刺，为实地场景测试做好准备。

岗位职责：

1. 负责 Alpha 硬件节点的固件架构设计、定制模块集成、底层驱动开发以及低功耗 BLE 蓝牙数据传输。
2. 开发、调试并部署运动轨迹追踪、噪声滤波及姿态解算算法，确保输出低延迟、高精度的实时数据流。
3. 在 Alpha 阶段快速迭代，优化硬件性能，打造结构紧凑、易于佩戴且可用于实际测试的成熟版本。
4. 与团队紧密配合，确立技术架构，优化电源管理方案，最终敲定核心硬件技术栈。

任职要求：

1. 具备 3 至 6 年独立设计并交付嵌入式硬件、物联网设备或智能穿戴产品的实战经验。
2. 精通 C/C++ 编程，在微控制器底层驱动开发（如 ESP32、Nordic nRF 系列）、定制传感器模块集成以及外设总线通信（I2C、SPI、UART）方面拥有扎实经验。
3. 熟练掌握 BLE 蓝牙低功耗通信协议、连接稳定性优化及移动端数据包处理逻辑。
4. 有惯性测量单元（IMU）、传感器融合（Sensor Fusion）、运动算法或运动学遥测硬件的实际开发背景。
5. 极强的结果导向与执行力，适应早期硬件高频迭代的节奏，能够独立高效推进项目。

薪酬与福利：

- **合同转正机制：** 初期 Alpha 阶段开发冲刺采用短期项目合同制。
- **发展通道与签证支持：** 随着硬件业务的扩展与资金到位，该岗位将平稳过渡为全职长期的带薪技术职位。对于符合条件的优秀候选人，我们在下一阶段可提供香港的工作签证（Visa）赞助支持。

投递方式： 请将简历或个人项目作品集发送至：hiring@schoenerhafen.com