Software Engineer Intern
6 months

Location: Renens VD

Scientific Visual

Join us for six months on SAM Scanner and work on GPU-accelerated, real-time AI inference that runs on production hardware. You'll help drive an ultrasound-based scanning system for semiconductor crystals (e.g., silicon carbide, calcium fluoride) where the C++/CUDA inference stack segments data during the scan, and a lightweight C# app orchestrates hardware and UI.

What will you do

- Work inside our inference stack (C++/CUDA): integrate models, optimize host-device data paths, and improve runtime components used during live scans (paired with a senior engineer).
- Build UI modules (C#/.NET): small, focused features that control temperature, liquid levels, pumps, and ultrasound sensors; wire up real-time visuals.
- Develop and maintain hardware and sensor controllers (heaters, pumps, ultrasound) with calibration, safety interlocks, and clear APIs.

What are we looking for

- Solid programming fundamentals in at least one language (C/C++, C#, Java, Go, Rust)
- Basics of concurrency/multithreading and IO
- Curiosity for GPUs or industrial systems
- Availability for a full-time, 6-month internship
- Clear communication in English

Bonus points

- Exposure to CUDA or GPU computing (coursework/hobby projects).
- Experience in real-time/control systems or sensor/embedded work.
- Familiarity with .NET GUI frameworks (WinForms, WPF, or similar).

Ready? Send an email to job@scientificvisual.ch

Feel free to do it even if your experience does not perfectly match all the points above. We value attitude and experience over formal training.

Scientific Visual SA
Chemin du Closel 5
1020 Renens, Switzerland

0041 79 125 64 47
welcome@scientificvisual.ch
www.scientificvisual.ch