Intern – Embedded GPGPU

Explore an exciting opportunity to work with a global 3D visionary leader!

Our FARO University Internship Program is designed to equip students with the tools needed to succeed in the 3D world. You will be part of a cohort of students and work on meaningful projects that will add to your professional portfolio and skills. Internships can often lead to professional roles after graduation.

Our interns use their education and newly gained skills on real projects and are embedded in our teams, working side by side with FARO professionals.

As an Embedded GPGPU Intern, you will investigate how some of our fundamental imaging and point cloud algorithms that currently are implemented on FPGAs in our FARO Focus and FARO Freestyle devices or run as native code within our Desktop software FARO SCENE can instead be efficiently realized on an embedded platform that includes a powerful GPU. In doing so you will help us unlock new kinds of products and workflows, by e.g. going from offline off-site processing to real-time on-site processing. To perform this work, you will become a member of the interdisciplinary Firmware/Embedded Software team, while also consulting with the specialized product teams.

In this internship, you will GAIN KNOWLEDGE – Become familiar with core processes and develop working knowledge of industry terminology. You will BUILD RELATIONSHIPS – Experience the business rhythm of the organization through participation in department meetings and observation of team role models. You will PRODUCE RESULTS – Complete projects and assignments as given. This is a part time position.

Hiring Preferences:
• Pursuing a Master's degree in Computer Science, Computer Engineering or related engineering discipline
• Excellent programming skills in C++
• Grades well above average
• Hands-on experience with a GPGPU computing framework such as OpenCL or CUDA

Desired Skills:
• Experience with OpenCV
• Experience with VHDL
• Practical experience with parallel algorithm development and optimization, in particular on resource-constrained systems

Key Behaviors:
• Self-motivated, goal-oriented and eager to learn
• Organized and diligent, even when multi-tasking

Interested? Please contact oswin.horvath@faro.com