6-months Internship at the Laboratory for timber constructions IBOIS, EPFL
Call for applications to join the Augmented Carpentry’s research team

Illustrations of research works in Augmented Carpentry at IBOIS, EPFL. Augmented reality applications, SLAM and point cloud processing software development.

The laboratory for timber constructions, IBOIS, is conducting research on XR, computer vision and machine learning for digital fabrication within the research team for Augmented Carpentry.
For more info about the research topic visit: https://www.epfl.ch/labs/ibois/augmented-carpentry/.

Internship description

IBOIS is a laboratory focused on timber construction and digital fabrication tools. The team of Augmented Carpentry that you will join is a young, dynamic, interdisciplinary small group of researchers composed by engineers, computer scientists and designers. We are focusing on developing computer vision technologies and applications for the timber industry. As an intern in the team you will:

- prototype computer vision and AI tools for augmented reality applications in timber construction.
- contribute to existing code either by adding features or designing new implementations, doing code review or producing software documentation.
- test the developed tools in our workshops and facilities in real-life construction scenario.

We are looking for strong motivated applicants willing to learn new programming skills and to step out of their comfort zone to contribute to the on-going research.

Applicant’s profile

- Programming knowledge in C/C++ and Python.
- Understanding of AI techniques for imaging.
- Basic knowledge or previous experiences in 3D vision (e.g., point cloud processing, SLAM) and 2D image analysis.
- Creative and practical problem-solving mindset.
- Experiences in software development is a plus, but not required - if you think you are the right fit, regardless of your background, apply.

Planning

The internship will last for a minimum of 6 months and can start from mid-September 2022 or mid-January 2023.

Interested applicants can send their CV/Portfolio to andrea.settimi@epfl.ch