# Software Engineer (Front-End)
## ARC Student Project - Mobile ARCAM - Volunteering Position

The Autonomous River Cleanup (ARC) is a student-led initiative supported by the Robotic Systems Lab with the goal of removing riverine waste. By joining the **Mobile ARCAM project**, you will contribute to ARC's newest endeavor, where we aim to develop an improved river waste monitoring system using a mobile phone at its core. By using a mobile phone, we want to take advantage of its camera, processing power, communication capabilities, and compactness. With this project, we want to build a simpler, cheaper, and more scalable monitoring system to deploy at several bridge locations.

**Your role:**
During your time at ARC, you will do the following:
- Build a pretty front-end application to display the data from our live river-monitoring systems
- Build an interface to handle edge devices and change their settings
- Communicate with the back-end to access the data

**Your skills and background:**
Ideally, you already have the following skills or are eager to learn them:
- Experience with front-end programming languages and frameworks (e.g., Javascript, React, etc.)
- Some know-how in back-end and how to access the data
- A flair for design and UI/UX

You do not need to be an expert yet, but you are willing to become one!

**Expectations:**
As a team member, we expect you to:
- Be proactive and take responsibility for your work
- Participate in team meetings and workshops
- Take ownership of your projects and tasks
- Collaborate closely with your team

**What do you receive?**
By participating in this unique opportunity, you will:
- Expand your knowledge and gain hands-on experience on a project outside of the classroom
- Establish and grow your professional network and engage with people from academia
- Be part of a friendly community, grow as a unit, and build friendships
- Do something meaningful for our natural environment
- Receive support and guidance from current team members
- Kickstart your career!

**Project start:** as soon as possible
**Duration:** 2 semesters (spring 2024 & autumn 2024)
**Working hours:** 8 hours/week

Please be informed that your work, as part of a student project, will be entirely voluntary and does not offer any payment. However, you will be able to prove your practical experience in your CV and have access to a vast infrastructure to realize your ideas.

**Interested? Any questions? Get in touch!**
We look forward to hearing from you! For the application, please specify why you are interested in the project and include your CV. Please reach us at arc@ethz.ch.

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