

Flow and Resistance Visualization

Swim Tech LLC

About US

Swim Tech LLC is a water sports company that is working to provide education, and accessibility by creating a community around water sports and exercise.

The Project

Swim Tech is looking to continue development on our stroke visualization software. The work will be directed toward transitioning the existing augmented reality/video overlay functionality into a mobile application and adding functionality to the computer vision model. A successful project includes the following:

- Transition existing project into a mobile development framework
 - Display an AR- like video overlay of the resistance spots
 - Transition computer vision to mobile device computation
- Utilize computer vision and physics engine to design a simple fluid simulation



Skill Sets

This project will be great learning experience. Basic knowledge in mobile application development, and computer vision/augmented reality would be helpful for this project. Otherwise, skills you may learn or improve upon in this project include.

- Mobile application development
- Computer Vision/Augmented Reality
- Manipulating Video files
- Simulation and modeling

Team Size and Location

The ideal team size is 3-4 people. You decide on location! No travel necessary as we will connect over Zoom. For this project, you will be asked to assign IP rights and title to Swim Tech LLC.