



Placement Opportunity

Undergraduate (BA) student: ☒

Graduate (MA) student: ☒

Reference:	Lynxight – Software Development
Company Name:	Lynxight
Company Type: (Startup/Mature/...)	Startup
Location: (full address)	4 Ha'Mada st., Yokneam-Ilit 2066718, Israel
Duration of stay: (min 2, max 6 months)	3-6 months

Company Description:

Lynxight is a computer vision platform for the aquatic sector. We are developing a new class of computer vision technology for above-water and under-water applications, providing superior detection, tracking and classification capabilities for numerous applications where sought-after objects lie on the surface or below the water line.

The company's first commercial vertical is the pool sector, in which it serves some of the most notable chains across northern Europe, the U.S. and Israel. In this newly released product, the system makes use of advanced overhead cameras to monitor all pool types, applying computer vision with deep learning algorithms to uncover safety incidents and swimmer patterns that would otherwise go unnoticed. The system captures unusual swimmer behavior and a variety of pool analytics to enable proactive lifeguarding and optimize pool resources.

Job Description and Tasks:

After numerous successful internships from MIT, Columbia and TU Munich, we now build our internships to achieve a reliable win-win scenario – the interns gain experience in solving real world problems and understanding system-level considerations as well as algorithmic ones, and the company gains a fresh perspective and solutions to well defined, self-contained problems.

Together with the intern, and taking the internship duration into consideration, we will choose how the intern takes part in design and development of a complex, multi-process, data intensive, CPU+GPU based computer vision server. The interface with the algorithmic components of the system is crucial and some understanding of data science is an advantage. Server is based on Python and uses a wide set of data science tools and open source libraries, and runs on Linux. Additionally, we employ a web frontend/backend architecture and a Java based Smartwatch.

Essential Requirements:

- At least 2 years into, or already graduated BSc. in Computer Science, Electrical Engineering or related fields.
- Proficiency in Python
- Experience with low level operating system programming, code optimization and integration to multi-threading systems – some of the above
- **A self-learner, independent problem solver who thinks creatively!**
- **Great interpersonal skills and fun to work with!**

Advantages:

- Experience with image or video applications, and understanding of image processing and deep learning concepts
- Experience with DevOps
- Experience with Django, React, and Android Studio (Java)
- Experience with cloud (AWS) interfaces, web frontend and backend

Remuneration Details:

Lunch and transportation expenses of the intern will be covered. We will also be glad to assist with finding a comfortable accommodation and support with any other matter (including sight-seeing and “experiencing Israel” suggestions).