

Artur Jesslen

STUDENT · SOFTWARE ENGINEER

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EXPERIENCES

Software programmer

Startup Ouay

📅 Jul 2019 – Ongoing

📍 Lausanne, Switzerland

Ouay provide a solution for the elderly to keep their autonomy at home. We develop a voice-based interaction platform that connects elderly, nurses, family members, and smart things. Ouay keeps up to date family members about their parent's health and life.

Skills:

- Creation of database (MySQL).
- Implementation of APIs to access and update the database (PHP).
- Creation of a web interface to manage the database (HTML, Javascript, CSS).

Board member

Entrepreneur Club EPFL

📅 Oct 2019 – Ongoing

📍 Lausanne, Switzerland

Entrepreneur Club EPFL brings entrepreneurial-minded people together and support them in the execution of their ideas. We inspire the next generation of entrepreneurs by spreading the passion for entrepreneurship. We educate fellow students by giving them the opportunity to try their hand at entrepreneurship through their network and their series of events. Finally we accelerate students' projects/startups with workshops and services hosted at their co-working space.

My role consists principally in logistics management, creation of the website and events planning.

Student assistant

Swiss Federal Institute of Technology - EPFL

📅 Sep 2017 – Ongoing

📍 Lausanne, Switzerland

- Teaching analysis for bachelor students.
- Teaching object oriented programming and supervision of semester projects in C++ for bachelor students.

Animation of scientific workshop

EPFL science promotion department

📅 Sep 2019 - Apr 2020

📍 Lausanne, Switzerland

Introduction of scientific concepts present in our everyday life. Supervision of high potential middle-school students during realisation of scientific experiments. Mentoring of children during project preparation.

Summer job

A. Raymond GmbH

📅 Summer 2016 & 2017

📍 Harteim, Germany

Products assembling. Semi-automatic machine operation control.

ABOUT ME

I'm always *energetic* and eager to *learn* new skills. Very interested in *robotics*, therefore I constantly try to undertake new challenges. My *openness* and *reliability* are key strength to build relations and a *collaborative* atmosphere with my co-workers.

PERSONAL INTEREST



Drone conception

📅 Ongoing project

From a D.I.Y. drone kit, a friend and I are assembling and programming a full autonomous quadcopter (automatic takeoff and landing) with path planning and object tracking using computer vision.



Technology

Technology enthusiast, UX and UI design, 3D printing, computer vision, machine learning, aerial robotics.



Sports & activities

Diving, running, cycling, motorcycling, snowboard.

PROGRAMMING

♥ C/C++, Python, PHP

</> Java, Swift, Matlab, Assembly, C#

📦 HTML, Javascript, MySQL

🔧 Optimization, ROS, UI & UX

LANGUAGES

French

Mother tongue

English

Full professional proficiency

German

Professional proficiency

Spanish

Elementary notions

PROJECTS

Real-time estimation of ground reaction forces during human locomotion

Biorobotics Laboratory

📅 Jan 2020 - Jun 2020

The project consists in creating a model for predicting ground reaction forces in the context of human/animal locomotion for real-time application using Inertial Measurement Units.

Skills: Python and C++ programming, OpenSim software, ROS, Machine Learning packages.

Machine Learning

Course project

Image segmentation of aerial satellite images to identify roads from background using machine learning algorithms (Convolutional Neural Network).

Skills: Python programming, Keras library.

Multi-robot navigation in cluttered and dynamic environments

Course project

This project aims to implement a navigation strategy for a multi-robot system formed by a group of real robots moving throughout an environment maintaining a collective movement while avoiding dynamic obstacles.

Skills: C programming, Webots software for optimization (Particles Swarm Optimization)

MPC Controller

Course project

Implementation of a Model predictive control controller (both linear MPC and nonlinear MPC) to fly a quadcopter in simulation environments.

Skills: Matlab programming.

EDUCATION

M.Sc. in Robotics

Swiss Federal Institute of Technology - EPFL

📅 Sept 2019 - Ongoing 📍 Lausanne, Switzerland

#18 ranked University worldwide

#6 ranked University in Europe

Specialization in Mobile Robotics.

Exchange year

Nanyang Technological University - NTU

📅 July 2018 - June 2019 📍 Singapore

#6 ranked Engineering School worldwide

Exchange year in the school of electrical and electronic engineering.

B.Sc. in Microengineering

Swiss Federal Institute of Technology - EPFL

📅 Sept 2016 - July 2019 📍 Lausanne, Switzerland

#18 ranked University worldwide

#6 ranked University in Europe

Multidisciplinary curriculum including mechanical engineering, electronic engineering, materials science and computer science.