

JOE NAJM

Electrical and Electronics Engineering Master's student

@ joe.najm@hotmail.com
Zurich, Switzerland

+41 78 346 50 01
joenajm

Schellerstrasse 19, 8620 Wetzikon

JoeNajm



EDUCATION

M.Sc. in Electrical and Electronics Engineering

École Polytechnique Fédérale de Lausanne (EPFL) - Switzerland

Sept 2021 - Ongoing

B.Sc. in Electrical and Electronics Engineering

École Polytechnique Fédérale de Lausanne (EPFL) - Switzerland

Sept 2018 - June 2021

French Baccalaureate with science specialization

Lycée Bonaparte Doha

June 2018

COURSES TAKEN

Computer Vision Deep Learning Applied Data Analysis
Image Analysis and Pattern Recognition Intelligent Agents
Modern NLP Network Machine Learning Adaptation & Learning
Convex Optimisation Signal Processing Probability and Statistics
Fundamentals of Machine Learning Automatic speech processing
Control Systems Electro-acoustic Power Electronics

PROJECTS

Android Applications developer

Independent

October 2023 - Ongoing Zurich

- Developing android applications using Kotlin and Kotlin Jetpack Compose in my free time. Most notables apps include a gym workout tracker and a calendar reminder. All apps can be found open-source on my github.

Driverless Division Perception sub-team Leader

Lausanne Racing Team, EPFL

August 2022 - August 2023 Lausanne

- In charge of the perception of the EPFL Racing team self driving car. Led a team that developed real-time object detection and distance estimation algorithms that were directly used on the autonomous car using a monocular camera and a Lidar.

STRENGTHS

Hard-working Eye for detail
Motivator & Leader
Teamwork & communication

Python Computer Vision Data analytics
Pytorch Pytorch Lightning Deep Learning
Git/Github Kotlin Signal Processing
C++ Scrum meetings Matlab

LANGUAGES

English ● ● ● ● ●
French ● ● ● ● ●
Arabic ● ● ● ● ●
Spanish ● ● ● ● ●
German ● ● ● ● ●

EXPERIENCE

Data Analysis Intern

Sauber - Alfa Romeo F1 Team / Stake F1 Team

09/2023 - Ongoing Hinwil

Part Time Research assistant

MIAL Lab (CHUV)

10/2022 - 05/23 Lausanne

Summer internship

MIAL Lab (CHUV)

07/2022 - 09/2022 Lausanne

Student assistant

EPFL

02/2021 - 06/2021 Lausanne

- Numerical analysis assistant
- Mentor for 1st year students

Driverless Division

Lausanne Racing Team, EPFL

📅 January 2022 - June 2022 📍 Lausanne

- Developed an object detection algorithm using a 3D Lidar and a monocular camera.

Driverless Division

Lausanne Racing Team, EPFL

📅 Sept 2021 - Dec 2021 📍 Lausanne

- Trained a perception deep learning model for the LRT driverless division using a monocular camera for object detection and distance estimation.

Bachelor Project

Signal Processing Lab 5, EPFL

📅 Feb 2021 - June 2021 📍 Lausanne

- Trained an image recognition algorithm to detect varroa mites on a bee hive image based on YOLOv5.

EPFL Racing Team

Perception sub-team leader

📅 08/2022 - 08/2023 📍 Lausanne

EPFL Racing Team

Computer Vision Engineer

📅 09/2021 - 08/2022 📍 Lausanne

EXTRA CURRICULAR ACTIVITIES

- Coaching SEL EPFL (logistics manager)
Sept 2019- June 2020

PERSONAL DETAILS

- Age : 23
- Not married
- No kids