

Taha Zakariya

3rd year Communication Systems Bachelor student at EPFL

Portfolio :

<https://zakariyataha.github.io/tahazakariya.github.io/>

Education

EPFL, Switzerland — BSc in Communication Systems

2018-2021

Very good academic background, GPA of 4.9/6

EPFL, Switzerland — CMS

2017-2018

Preparatory class

Belbachir, Morocco — Baccalaureat

2005-2017

Excellent high school background (Regular top 3)

Experience

EPFL, Switzerland — Research student assistant at Xplore (VITA Lab)

February 2020 - now

- Interdisciplinary project to participate in two international competitions
- Tackle a new aspect of the stereo odometry challenge with 360° cameras, using **convolutional neural networks** in order to determine the position of the rover.
- The project aims to leverage the power of machine learning to replace the very expensive Lidar with normal cameras in the odometry estimation.

Keys words: Python, CNN, Pytorch, OpenCV, Numpy

EPFL, Switzerland — Teaching Assistant

September 2020 - December 2020

Assisted 300+ EPFL 1st year students in physics and Analysis.

Diagonale Management, Morocco — Graphic designer

April 2015

Used AutoCad to design plans

Chemin des Triades 7

1024 Ecublens

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Skills

Java, Scala, Git, Python, VHDL, Processing, Assembly, C

Projects

KNN project: Implement and evaluate a program capable of recognizing handwritten numbers (**Java**)

Grid game: Small game engine allowing you to create RPG-type two-dimensional grid games (**Java**)

Javass: Variation of the famous Jass game, can be played remotely with others. (**Java**)

Augmented reality game: Edge detection lab, Interactive game (**Processing**)

Multicycle Nios II Processor : implement a simple multicycle processor architecture (**VHDL**)

Tetris game (Assembly)

Main Courses

Algorithms, Stochastic models, Functional programming, Introduction to machine learning, Introduction to visual computing, Computer networks, Computer Architecture, Computer security, Quantum information processing, Probabilities and statistics

LANGUES

Arabic (Native)

French (Bilingual)

English (Professional)