

Nara CLERC

Pronouns: they/them

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Education

EPFL, Ecole Polytechnique Fédérale de Lausanne, Lausanne

MSc in Electrical Engineering, specialization in Internet of Things

Sept. 2018 - Feb. 2021

BSc in Electrical Engineering

Sept. 2015 - June 2018

Gymnase du Bugnon, Lausanne

Swiss Matura Diploma, Physics and Applied Mathematics

Sept. 2012 - June 2015

Professional Experience

Embedded Software Engineer at Oratek Sàrl

Sept. 2021 - Today

Responsible of embedded software on multiple consulting projects for various corporations

Research Intern at Idiap Research Institute

Mar. 2021 - May 2021

Working towards publishing the results of my MSc project

Embedded Computer Vision MSc project at Idiap Research Institute

Sept. 2020 - Feb. 2021

Developing an embedded solution for computer vision in a microscope system - idiap.ch/compimaging

Embedded Software development Internship at Sigfox SA, France

Feb. 2020 - Sept. 2020

Developing an end-to-end solution to gather data and pictures of birds in a Sigfox connected bird nest - thehackinghouse.com

Research Assistant at Embedded Systems Laboratory, EPFL

Feb. 2019 - June 2019

Software in an embedded camera board - esl.epfl.ch

R&D Internship at REACT Group, EPFL

July 2018 - August 2018

Embedded electronics and programming for a luggage trolley with assistive motorization - react.epfl.ch

Academic Projects

Image segmentation with Machine Learning

Sept. 2019 - Dec. 2019

[Road Segmentation](#) - Comparing the performances of two ML models for road segmentation

Development of an app for tablet and smartwatch

Sept. 2018 - Jan. 2019

[Lockbreaker](#) - a two-player asymmetric cooperative puzzle game

Development of an app for Nintendo DS gaming console

Sept. 2017 - Jan. 2018

Dance It Out - a multiplayer competitive rhythm game

Technical skills

Programming

C/C++, Python, Git, Embedded Linux, STM32Cube suite

Electronic systems

μcontrollers (ARM/Cortex), Raspberry Pi (up to CM4), Electronics prototyping, FPGAs

Machine Learning

PyTorch, Jetson Nano, Computer vision, Image segmentation, Image classification

Distinctions

Texas Instruments Student Prize, for the Dance It Out game on Nintendo DS

2018

Gymnase du Bugnon Prize for English Skills

2015

M.-J. Visinand Creativity Prize, for a musical composition at Gymnase du Bugnon

2014

Languages

French native language

English full professional proficiency

German Upper intermediate level

Interests

Music

Hobby Electronics

Skateboarding

Teaching