

# APPLICATION FOR A 6-MONTH ENGINEERING INTERNSHIP COMPUTER-VISION/MACHINE-LEARNING

LOÏCK TOUPIN

📍 France, Germany, Switzerland 📅 october 2024

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## PROFILE

I am a 23-year old student, looking for a 6-month internship to close my engineering degree in the fields of **computer-vision** and **machine learning**.

Long time passionate about photography and automation, I want to blend and improve my skills in a new, exciting environment.

I'm open-minded and curious, always eager to explore new ideas and perspectives.

English, French or German as main language would be fitting.

Location : France, Germany, Switzerland.

## EDUCATION

2023 - 2024  
**MASTER COMPUTER SCIENCE - 1 YEAR ERASMUS EQF-7**  
Technische Universität Dresden



- computer-vision ; virtual reality.
- deep learning for robotics ; FPGA computing for robotics.
- German C1 for scientific communication.

2019 - 2024  
**INFORMATICS & INFORMATION TECHNOLOGIES**  
Public engineering degree : INSA-Rouen



- ground scientific knowledge :  
mathematics ; physics ; chemistry ; languages ; philosophy.
- machine learning ; imaging science ; numerical algebra ; statistics ;  
signal processing ; electronics ; database ; web ; UML.
- promoted student engagement.

2019  
**HIGH SCHOOL DIPLOMA WITH HIGHEST HONORS**  
Lycée François Premier, le Havre

## SKILLS & HOBBIES

🇫🇷 Native    🇬🇧 B2+ TOEIC 925    🇩🇪 C1    🇨🇭 daily spoken

- efficient communication, organized.
- scientific approach, critical analysis.
- flexibility, dynamism.
- very interested in new technologies.

Hobbies : photography ; FPV-drones ;  
piano ; ride a bike.

🔗 OpenCV    🐍 C++    🔥 Pytorch    📦 ROS    📄 JavaScript    📁 Git    🐧 Ubuntu

## VOLUNTEERING

2021-2023  
Founder of INSA-Drone, student club for drone competitions.



2022-2023  
Part of the setting up of an analog photography development lab.



[www.linktr.ee/loickcv](http://www.linktr.ee/loickcv)

## EXPERIENCE

**COMPUTER VISION INTERNSHIP : DEPTH MAPS**  
STEREOLABS, Paris  
3 months, 2023

**StereoLabs\***

- multi-camera calibration.
- dynamic masking.
- setting up GNSS-RTK localization.

**INSA-CERTIFIED PROJECT**  
INSA-Rouen, Actemium-Paris-Transp.



- developer for 6 months in 2023 : compressed video processing  
in C, with the use of SCRUM organization (team of nine) and GitLab.

**DRONE PILOT FOR INDUSTRIAL PHOTOGRAMMETRY**  
ROAV7, le Havre  
2-month internship, 2020

**ROAV7**

- mission preparation and execution in a safe environment.

## PERSONNAL

- controlling drone swarms in Vision-Lab at INSA (18 months). 🔗
- desktop application for timelapse photographers (C++, OpenCV, Qt). 🔗
- self made FPV-drones ; 3-axis motorized Bluetooth camera slider.
- professional drone pilot certificate 2020 (theory & practice).