

Antoine Duteyrat

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Education

Télécom Saint-Étienne

Saint-Étienne, France

Master's degree in Image Processing and Photonics

Sept 2022 – Now

- **Relevant coursework:** Computer Vision, Machine Learning, Deep Learning, Image Processing
- **Relevant information:** Apprenticeship with Safety Tech in Brignais, France

Université du Québec à Chicoutimi

Chicoutimi, Canada

Exchange semester in Computer Science

Jan 2022 – May 2022

- **Relevant coursework:** Calculus II, Android development, Data Mining

Université Clermont Auvergne

Clermont-Ferrand, France

Associate's degree in Computer Science

Sept 2020 – July 2022

- **Relevant coursework:** OOP, Computer Networking, AI Modelling, Database management

Experience

Safety Tech

Brignais, France

Image processing and engineering apprentice

Sept 2022 – Now

- Used **AGILE Scrum** methodology for embedded software development
- Worked with embedded systems through serial and ssh, flashing and cross-compiling embedded software via **Docker** and **CMake**
- Integrated an AI model to track the end of a truck trailer in real-time using **Cuda** and **ONNX Runtime**

NTNU Gjøvik

Gjøvik, Norway

Image processing for detection and tracking intern

Aug 2024 – Oct 2024

- Trained and evaluated **EfficientDet** and **YOLOv8** for animal detection in pens via **Ultralytics** and **TensorFlow**
- Implemented a **Barlow Twins** optimization algorithm for self-supervised learning on the EfficientDet model

Technologies

Languages: French (native), English (C1)

Technical Skills: C, C++, Computer Networking, Machine and Deep Learning in Python (Ultralytics, TensorFlow), Web programming, Image processing, SCRUM project management

Interests: Technology Trends, Teamwork, Discovering new topics and participating in innovative projects