



# Antoine Duteyrat

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## Education

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### Télécom Saint-Étienne

*Master's degree in Image Processing and Photonics*

**Saint-Étienne, France**

*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

*Exchange semester in Computer Science*

**Chicoutimi, Canada**

*Jan 2022 – May 2022*

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

### Université Clermont Auvergne

*Associate's degree in Computer Science*

**Clermont-Ferrand, France**

*Sept 2020 – July 2022*

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

## Experience

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### Safety Tech

*Image processing and engineering apprentice*

**Brignais, France**

*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 classical image processing and an AI model to track the end of a truck trailer in real-time using **Cuda** and **OpenCV**

### NTNU Gjøvik

*Image processing for detection and tracking intern*

**Gjøvik, Norway**

*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

## Skills and Technologies

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**Languages:** French (native), English (C1, TOEIC 990/990)

**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