



# Antoine Duteyrat

📍 Saint-Étienne    ✉ aduteyrat@gmail.com    ☎ 06 30 33 98 18    🌐 antoinedenovembre.com  
in LinkedIn    📱 antoinedenovembre

## 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