



# Antoine Duteyrat

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## Education

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**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

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**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

## Skills and Technologies

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**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