Antoine Duteyrat

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Experience

Safety Tech   **Brignais, France**
Image processing and engineering apprentice   *Sept 2022 – Now*

- Integrated classical image processing and an AI model to track the end of a truck trailer in real-time using **Cuda** and **OpenCV**
- Worked with embedded systems through serial and ssh, flashing and cross-compiling C++ written embedded software via **Docker** and **CMake**
- Implemented several **Gitlab CI/CD** pipelines for automated building, testing and deployment

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

Education

Télécom Saint-Étienne   **Saint-Étienne, France**
Master's degree in Image Processing and Photonics   *Sept 2022 – Now*

- **Relevant coursework:** Deep Learning (in Python), Image Processing, 3D Imagery
- **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, Data Mining (in Python)

Université Clermont Auvergne   **Clermont-Ferrand, France**
Associate's degree in Computer Science   *Sept 2020 – July 2022*

- **Relevant coursework:** OOP, C++ programming, Advanced algorithms

Skills and Technologies

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, Video Games, Travelling, Cinema