



PAUL COLLETTE

Final-year aerospace engineering student, seeking a 6-month+ internship, fixed-term contract, or permanent position starting February 2026.

31 / 03 / 2003

CONTACT

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linkedin.com/in/paul-collette

TECHNICAL SKILLS

Machine learning

Programming (Python, C++, C#, C, Java)

System modeling (Matlab, Simulink)

3D modeling (Catia, Solidworks)

Mechanical engineering

Mathematics (statistics, probabilities)

SOFT SKILLS

Team management

Teamwork and collaboration

Creativity

REFERENCE

Murielle Kirkove

Centre Spatial de Liege,
Researcher in signal processing, Supervisor during my research internship

Email : M.Kirkove@uliege.be

LANGUAGES

French (Fluent)

English (Fluent, C1)

Spanish (Basic, B1)

INTERESTS & ACTIVITIES

Running: Brussels Marathon 2024

Music: Guitar, Piano, and Computer-assisted composition

Solo Travel: India, Indonesia, ...

Volunteer Work: Les soldats du

sourire (NGO, helps people in need)

Investment: cryptos, ETF and stocks

PROFILE

Aerospace Engineering student with expertise in machine learning and satellite image analysis, complemented by a solid background in mechanical engineering. With experience in research internships and collaborative team projects, eager to apply my technical expertise and further develop my skills during a challenging internship in the aerospace, finance, or defense sectors.

EDUCATION

ESTACA

2021 - 2026

Engineering school in Paris-Saclay, France.

Specialisation: Aerospace engineering
(Advanced Satellites, Defense and Space)



Manipal Institute of Technology, India

Jan - May 2025

Academic exchange.

Relevant coursework: Machine Learning and its Applications to Mechanical Engineering; Programming using Python; Management; Mathematics (statistics and probabilities).

WORK EXPERIENCE

Centre spatial de Liege, University of Liege

Jun - Sep 2025

Research internship, Signal Processing Lab

Liege, Belgium

Conducted a literature review and adapted an unsupervised machine learning method using joint convolutional autoencoders for pairwise image reconstruction, aimed at detecting changes in pre-processed SAR (Synthetic Aperture Radar) time-series from mining sites in the Democratic Republic of Congo. The SAR and optical images were extracted and managed from a SQL database. I implemented the algorithm in Python, validated and tested it on optical datasets, and identified preprocessing issues affecting the SAR images.

Aux enfants terribles, Restaurant

May - Jul 2024

Pastry cook / Waiter / Kitchen assistant

Marquette-lez-lille, France

Les ballonsigrateurs, Hot-air balloons flights company

Jun - Jul 2023

Hot-air balloon retriever

Bondues, France

Norauto, Car garage

Aug 2022

Tire fitter intesnship

Velizy, France

MY PROJECTS IN ESTACA

The Spring Institute for Forests on the Moon, research institute

Sep - Dec 2024

Team project, researching ideas for providing a biological life support in space.

Alten, consulting company

Sep 2023 - May 2024

Team project, researching ideas for maintenance solution of satellites in orbit.

Involvement in student associations:

Estaca Space Odyssey (2022-2023), water rocket creation project.

Sailing (2023-2024), theoretical and practical boat driving courses.