Luc PHILIZOT

As a recent graduate of IPSA, a french engineering school specializing in aeronautics, space, transport and energy, with a passion for innovation and motivated by international challenges, I'm looking for an international position. My varied past experiences in demanding industrial environments, notably at Collins Aerospace and the Guyana Space Center, have enabled me to develop great adaptability and a mastery of engineering tools that will help me to successfully complete my assignments. I am available from March 24, 2025.

CONTACT

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Asnières-sur- Seine,
FRANCE

SKILLS

Languages

- English Fluent : TOEIC 805/990, C1 EF Course Certificate
- French : Mother Tongue, Editorial level (Voltaire Certificate (879/1000))

IT

- Microsoft Pack Office
- MATLAB/Simulink
- CATIA/SolidWorks
- Ansys/Patran/Nastran/Abaqus
- Python
- STAR-CCM+
- Simcenter Amesim

HOBBIES

Travel

- 2024, Argentina/Chile : 6-month backpacking trip
- 2018/2021, England : semester in language school (EF)
- 2021, Guyana : 4-month internship
- 2017, Haiti : 1-month stay with an association

Associative

- Member of the “Haïti Futur” association since 2014 : participation in various actions with the aim of developing education and providing equipment following the 2010 earthquake

WORK EXPERIENCES

R&D Product Engineer *(Study and development of an optimization model for an electro-hydraulic actuator (EHA) motor pump unit)*

Collins Aerospace | may 2023 — december 2023, Paris

- Data processing/analysis and inventory of all work carried out on EHA motor pump units in operation (Airbus A380, Embraer KC-390)
- Study of the pump mechanism to determine an expression for its efficiency, and the motor to determine an expression for its overall dimensions
- Modeling and creation of a tool to quickly determine the overall dimensions (sizing and mass) of the motor pump unit from input data (cylinder capacity, pressure, flow rate...) in order to obtain the optimum dimensions of the motor pump unit

Maintenance and Reliability Engineer *(Obsolescence study of the Guyana Space Centre (CSG)'s telemetry reception system)*

Telespazio | july 2021 — october 2021, Kourou (Guyana)

- CSG’s data processing/analysis and management of the obsolescence of the CSG telemetry reception system using Excel calculation software
- Drafting of the annual report on the monitoring and treatment of telemetry system obsolescence supplied to CNES (National Center for Space Studies), indicating the purchasing strategy
- Guarantee of system availability in association with CNES, using PNRS (Probability of Non-Stock Failure) and MTBF (Mean Time Between Failure) calculations

Quality Engineer

Tréfimétaux | june 2019 — august 2019, Paris

- Classification of material tubes by carrying out metrological and chemical controls in the quality laboratory
- Validation of European and American quality standards using carbon analyzers (carbon limit imposed) and nitric acid solutions (material purification)
- Management of customer relations, negotiation of agreements between 2 parties

EDUCATION

IPSA (Polytechnic Institute of Advanced Sciences), Paris (2017 – 2023)

Preparatory class and engineering cycle, international semester at the University of Salford (England)

- Aerospace Engineering
- Mechanical and Structural Engineering
- Fluids and Energies