LEO DODY

leo.dody01@gmail.com
ldody.github.io
www.linkedin.com/in/leo-dody

WORK EXPERIENCE

Mechanical Engineering Intern at FRAMATOME – Lyon, FRANCE   Mar. 2021 to Aug. 2021

- Carried sensitivity studies of reduced models on the lateral deformations of fuel assemblies in nuclear plant cores for PWR in France.
- Performed comparative analysis of efficiency and accuracy of reduced nuclear plant core models with Python to validate the model.
- Processed and analyzed deformation data of 3 nuclear plant cores with Python.
- Performed uncertainty quantification with local and global sensitivity analyses implemented in Python & Dakota to determine the most sensitive parameters.

Mechanical Engineering Intern at THALES – La Ferté-Saint-Aubin, FRANCE   Feb. 2020 to Jul. 2020

- Developed the entire innovative concept of an aircraft defense system.
- Defined the aircraft operational requirements, functional specifications, used technologies, and components' characteristics.
- Established aerodynamic constraints and created operating ranges charts with Excel. This work allowed for pre-dimensioning the aerodynamic components and the aircraft structure.
- Designed the mechanical architecture including electronic components, aerodynamic elements, and propulsion system with Creo.

EDUCATION

IAE Lyon School of Management, FRANCE – MA/MBA in General Management Program   2021 – 2022

- Business Management, Business Economics, Business Law
- Corporate Finance & Financial Analysis, Audit, Accounting
- Risk Management Strategies in International Finance

Ecole Centrale de Lyon, FRANCE - MSc in fluid and energetic mechanics   2020 – 2021

- Extensive Computational Methods, High Performance Computational Simulation
- Advanced Fluid Mechanics, Stochastic Calculus
- Thesis: "*Uncertainty quantification in the mechanical part of a reduced model*"

Polytech Lyon, FRANCE - Master of Engineering in Mechanics   2018 – 2021

- Fluid & Structural Mechanics, Acoustic, Thermodynamics
- Computational Methods, Programming
- Mathematics, Statistics

RELEVANT SKILLS

- Python, C/C++, MATLAB, SQL
- MS Office Suite, UNIX/LINUX
- Autonomous, team worker, organized

- Data analysis
- Risk analysis
- Financial statement

INDEPENDENT COURSEWORK

- Full list: https://ldody.github.io/#courses
- **Financial Markets** – Yale University via Coursera

- **Quantitative finance specialization** – HSE via Coursera (in progress)
- **Investment Risk Management** - Coursera