

Thomas Lambert

Aerospace Engineer

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Summary

Dedicated Aerospace Engineer with deep expertise in aerodynamics and a keen interest in technology, seeking to contribute to business strategy and innovation in the aerospace industry.

Experience

Teaching Assistant

University of Liège

Jan. 2017 – Dec. 2023

Liège, BE

- Practical applications in Aerospace design project, Aerospace propulsion, Flight mechanics and control, and Stochastic processes.
- Supervision of master theses related to coaxial rotors.

Research Engineer

University of Liège

Oct. 2015 – Dec. 2016

Liège, BE

- Development of aerodynamic models for counter-rotating rotors utilizing the innovative REDT technology to enhance design efficiency and improve rotor performance.
Partners: SAGITA, CMI Defense and Walloon Region.
- Design and implementation of a test bench for the characterisation of a micro-turboshaft engine; engine performance assessments and evaluation of its efficiency and capabilities.
Partners: Flying-Cam and Walloon Region.

Education

Ph.D. in Aerospace Engineering

University of Liège

2017 – Present

Liège, BE

Experimental and numerical analysis of unsteady rotating and flapping multi-wing systems.

M.Sc. in General Management (*Magna Cum Laude*)

HEC Liège

2017 – 2019

Liège, BE

Optimization of drone routing in humanitarian applications.

M.Sc. in Aerospace Engineering (*Cum Laude*)

University of Liège

2013 – 2015

Liège, BE

Modeling of aerodynamic forces in flapping flight with the unsteady vortex lattice method.

Strengths

Curious

Eagerly explores new technologies, constantly seeking innovative solutions.

Autonomous

Efficiently self-directed, capable of leading projects with minimal supervision.

Collaborative

Skilled at partnering across disciplines, enhancing project success through teamwork.

Languages

French



English



German



Skills

Microsoft Office

Linux

Git

Latex

MATLAB

Python

Lua

C++

Publications

Journal Articles

- **T. Lambert**, N. Abdul Razak, and G. Dimitriadis, “Vortex Lattice Simulations of Attached and Separated Flows around Flapping Wings,” *Aerospace*, vol. 4, no. 2, p. 22, Apr. 2017, ISSN: 2226-4310. DOI: 10.3390/aerospace4020022.
 - **T. Lambert** and G. Dimitriadis, “Induced Drag Calculations with the Unsteady Vortex Lattice Method for Cambered Wings,” *AIAA Journal*, vol. 55, no. 2, pp. 668–672, Feb. 2017, ISSN: 0001-1452, 1533-385X. DOI: 10.2514/1.J055135.
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Conference Proceedings

- **T. Lambert** and G. Dimitriadis, “Experimental analysis of a large-scale tandem flapping wing system,” in *AIAA SCITECH 2023 Forum*, National Harbor, MD & Online: American Institute of Aeronautics and Astronautics, Jan. 2023, ISBN: 978-1-62410-699-6. DOI: 10.2514/6.2023-2462. (visited on 01/10/2024).
- **T. Lambert**, N. Warbecq, P. Hendrick, R. Nudds, T. Andrianne, and G. Dimitriadis, “Numerical and Experimental Investigation of Tandem Wing Flyers,” in *AIAA Scitech 2019 Forum*, San Diego, California: American Institute of Aeronautics and Astronautics, Jan. 2019, p. 1620, ISBN: 978-1-62410-578-4. DOI: 10.2514/6.2019-1620.