



Mihai-Vlăduț Hothazie

Nationality: Romanian **Date of birth:** 17/09/1997 **Email:** hothazie.mihai@incas.ro

LinkedIn: Mihai-Vladut Hothazie

Home: Bucharest (Romania)

WORK EXPERIENCE

INCAS - National Institute for Aerospace Research "Elie Carafoli" – Bucharest, Romania

City: Bucharest | Country: Romania

Research Scientist

[09/2019]

- CFD Numerical simulations
- Developing custom aerodynamic shape optimization frameworks tailored to specific project requirements
- Developing automated data analysis and visualization tasks using scripting languages

National University of Science and Technology POLITEHNICA Bucharest – Bucharest, Romania

City: Bucharest | Country: Romania

Ph.D. Student Assistant

[09/2022 – 06/2023]

- Conducted seminars on *Fluid Mechanics*, *Aerodynamics*, and *Introduction in Turbulence Modeling*
- Evaluated student's performance through assignments, and midterm exams
- Guided students for university student research conferences

EDUCATION AND TRAINING

(Ph.D. Student) in Aerospace Engineering

Politehnica University of Bucharest, Faculty of Aerospace Engineering [10/2022 – Current]

City: Bucharest | Country: Romania

Master of engineering degree in Aerospace

Politehnica University of Bucharest, Faculty of Aerospace Engineering [09/2020 – 06/2022]

City: Bucharest | Country: Romania

Bachelor degree

Politehnica University of Bucharest, Faculty of Aerospace Engineering [27/09/2016 – 27/06/2020]

City: Bucharest | Country: Romania

PUBLICATIONS

[2025]

[Exploring the Impact of Strut Geometry on Strut-Braced Wing Configurations](#)

Journal Name: MDPI, Aerospace | Volume, Issue and Pages: Vol. 12, Issue 2

Mihai-Vlăduț HOTHAZIE, Daniel-Eugeniu CRUNȚEANU, Mihai-Victor PRICOP, Ionut BUNESCU

[2024]

[Experimental Determination of Pitch Damping Coefficient Using Free Oscillation Method](#) MDPI Aerospace 2024

Ionut BUNESCU, Mihaita-Gilbert STOICAN, Mihai-Vladut HOTHAZIE

[2024]

[Investigating the Effectiveness of Vortex Generators in Aviation through High-Fidelity CFD Analysis](#) INCAS BULLETIN

Mihai Vladut HOTHAZIE, Ionut BUNESCU, Mihaita-Gilbert STOICAN, Dennis-Stefan CHELEMEN

[2024]

[Numerical Investigation of Basic Finner Model in Roll Motion as Complement to the Experimental Work](#) AIAA SCITECH 2024

Ionut BUNESCU, Mihai-Vladut HOTHAZIE, Mihai Victor PRICOP, Alexandru Iulian ONEL, Tudorel AFILIPOAE

[2023]

[Roll Damping Measurements on Basic Finner Model Using Both Forced and Free Methods](#) Journal of Spacecraft and Rockets

Ionut BUNESCU, Mihai-Vladut HOTHAZIE, Mihai Victor PRICOP, Stoican Mihaita GILBERT

[2023]

[Coherent solutions to roll damping derivatives evaluation for a generic rocket model](#) INCAS BULLETIN

Ionut BUNESCU, Stefan BOGOS, Teodor-Viorel CHELARU, Mihai-Vladut HOTHAZIE, Mihai Victor PRICOP

[2023]

[Enhancing Airfoil Performance through Artificial Neural Networks and Genetic Algorithm Optimization](#) INCAS BULLETIN

Mara-Florina NEGOITA, Daniel-Eugeniu CRUNTEANU, Mihai-Vladut HOTHAZIE, Mihai Victor PRICOP

[2023]

[Low-speed airfoil optimization using CFD and low fidelity solvers](#) AIAA SCITECH 2023 Forum

Mihai-Vladut HOTHAZIE, Mihai Victor Pricop, Ionut Bunescu

[2021]

[Effects of the boundary layer control methods on stability and separation point](#) INCAS BULLETIN

Mihai-Vladut HOTHAZIE, Sterian DANAILA

[2020]

[Low-speed airfoil optimization using constrained differential evolution](#) INCAS BULLETIN

Mihai-Vladut HOTHAZIE, Matei MIRICA

[2020]

[Development and validation of constraints handling in a Differential Evolution optimizer](#) INCAS BULLETIN

Mihai-Vladut HOTHAZIE, Georgiana ICHIM, Mihai-Victor PRICOP

CONFERENCES & SEMINARS

[06/01/2025 – 10/01/2025] Orlando, Florida

AIAA SciTech Forum

[03/06/2024 – 07/06/2024] Lisbon, Portugal

ECCOMAS 9th European Congress on Computational Methods in Applied Sciences and Engineering

[11/09/2023 – 17/09/2023] Crete (Greece)

International Conference of Numerical Analysis and Applied Mathematics

[09/07/2023 – 13/07/2023] Lausanne, Switzerland

The Aerospace Europe Conference Joint event between the 10th European Conference for Aerospace Sciences (EUCASS) and the 9th conference of the Council of European Aerospace Societies (CEAS)

[27/06/2023 – 30/06/2023] Prague, Czech Republic

International Conference on Mathematical Problems in Engineering, Aerospace and Sciences

[23/01/2023 – 27/01/2023]

AIAA SciTech Forum

[14/10/2020 – 15/10/2020] Bucharest, Romania

International Conference on Aerospace Sciences "AEROSPATIAL 2020"

[06/11/2019 – 07/11/2019] Bucharest, Romania

The 38th "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

German

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

SKILLS

Python: Used for numerical simulations, data analysis, and automation tasks. / Matlab: Developed algorithms for aerodynamic analysis and optimization. / Fortran: Implemented and optimized computational models for aerospace simulations. / ANSYS Fluent: Conducted detailed CFD analysis