



Ionuț-Cătălin Cucu

Nationality: Romanian **Date of birth:** 05/03/1998 **Gender:** Male

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Work: Bd. George Cosbuc, No. 39-49, Bucharest (Romania)

WORK EXPERIENCE

Military Technical Academy "Ferdinand I" – Bucharest, Romania

Head of Laboratory, Department of Integrated Systems in Aviation and Mechanics

[01/07/2025 – Current]

Military Technical Academy "Ferdinand I" – Bucharest, Romania

University research assistant

[30/07/2021 – 30/06/2025]

EDUCATION AND TRAINING

PhD student

National University of Science and Technology POLITEHNICA Bucharest [01/10/2024 – Current]

City: Bucharest | Country: Romania | Field(s) of study: Aerospace Engineering

Master – Aeronautical Systems Engineering

Military Technical Academy "Ferdinand I" [07/03/2022 – 27/07/2023]

City: Bucharest | Country: Romania | Field(s) of study: Aerospace Engineering

Master – Conception Intégrée des Systèmes Technologiques

Politehnica University of Bucharest [04/10/2021 – 29/06/2023]

City: Bucharest | Country: Romania | Field(s) of study: Industrial Engineering

Master – International semester

Royal Military Academy [28/08/2022 – 21/01/2023]

City: Brussels | Country: Belgium | Field(s) of study: Structure, mobility, and propulsion module - Polytechnique faculty

Bachelor - Aircrafts and Aviation Engines

Military Technical Academy "Ferdinand I" [01/10/2017 – 29/07/2021]

Address: Bd. George Cosbuc, No. 39-49, Bucharest (Romania) | Field(s) of study: Aerospace Engineering

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B2

French

LISTENING B1 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

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

SKILLS

Numerical analisys

Ansys Mechanical / Fluent / Star CCM+ (Siemens) / catia V5 / Solidworks / Cosmos Geostar / ANSYS CFD-Post / ANSYS ICEM-CFD / LS Dyna

Cad

Catia V5 / Ansys DesignModeler / ANSYS SpaceClaim / SolidWorks

Programing language C/C++

Matlab / Mathcad

HOBBIES AND INTERESTS

UAV research

Chess

COMMUNICATION AND INTERPERSONAL SKILLS

Clear communication and effective interpersonal skills

Ability to work in scientific research teams. Collaborating and working well together with others. Awareness about my and team knowledge. Constructive feedback, listening well team opinions, diplomacy and good socializing skills.

PUBLICATIONS

[2024]

Aircraft Mechanisms: Laboratory Manual

Publisher: SITECH Craiova, ISBN: 978-606-11-8634-1

Ciprian-Marius LARCO, Ștefan-Mircea MUSTAȚĂ, Ionuț-Cătălin CUCU

[2023]

Study of the influence of turbulent flows on the aerodynamic performance of fixed-wing aircraft type UAV MALE

Journal Name: INCAS Bulletin | Volume, Issue and Pages: Vol 15, Issue 4, p107. ISSN: 2066-8201, DOI: 10.13111/2066-8201.2023.15.4.9.

CUCU, C., PUPAZA, C., JANSSENS, B., MIHAILA-ANDRES, M.,

[2022]

Aerodynamic analysis of the fuselage of a fixed wing aircraft type UAV using the finite element method

Authors: Cucu, C., Pupăză, C. | Publisher: Industrial engineering review - Faculty of Industrial Engineering and Robotics

CONFERENCES AND SEMINARS

[03/12/2025 – 06/12/2025] Vienna, Austria

SGEM Vienna Green UNMANNED AERIAL VEHICLES PATH-PLANNING STRATEGIES: FROM CLASSICAL METHODS TO ARTIFICIAL INTELLIGENCE-BASED APPROACHES, Cătălin CUCU, Daniel MĂRIUȚA, Ciprian LARCO, Lucian GRIGORIE

PROJECTS

[2024 – Current]

Proiect 24 SOL: "Combatant digital" Membru proiect

[2022 – 2023]

Proiect 84 PTE: "Lovitură reactivă în tandem EFP/TB pentru lansatoare portative" Membru proiect