**Curriculum vitae Europass**

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| Personal information | |
| First name(s) / Surname | **Grigore CICAN** |
| Telephone | 0763022185 |
| E-mail | grigore.cican@upb.ro |
| Nationality | Romanian |
| Date of birth | 19.08.1985 |
| **Work experience** | |
| Dates | **May 2025-present** |
| Occupation or position held | Coordinator of the Smart and Autonomous Systems - SAS Laboratory at the CAMPUS Research Institute, National University of Science and Technology Politehnica Bucharest |
| Dates | **August 2024-present** |
| Occupation or position held | Nominal composition of the specialized committees of the National Commission for the Attestation of University Titles, Diplomas and Certificates (CNATDCU) for the 2024 – 2028 mandate in commission 13 **Aerospace, automotive and transportation engineering** https://www.cnatdcu.ro/paneluri-cnatdcu/ |
| Main activities and responsibilities | Responsible for the evaluation and validation of academic titles and diplomas in Romania. |
| Type of business or sector | Member of the CNATDCU Commission, Commission 13 **Aerospace, automotive and transportation engineering** |
| Dates | **February 2024-present** |
| Occupation or position held | ARACIS Expert https://www.aracis.ro/registrul-national-al-evaluatorilor-cadre-didactice/ |
| Main activities and responsibilities | The external evaluation of the quality of education provided by higher education institutions and all educational organizations operating in Romania. |
| Name and address of employer | ARACIS stands for the Romanian Agency for Quality Assurance in Higher Education. |
| Type of business or sector | ARACIS Inspector. |
| Dates | **October 2023-present** |
| Occupation or position held | Full Professor in Faculty of Aerospace Engineering |
| Main activities and responsibilities | Didactic activities, Research activities |
| Name and address of employer | University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest, ROMANIA |
| Type of business or sector | High Education |
| Dates | **March 2023-present** |
| Occupation or position held | Senior Scientist |

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| Main activities and responsibilities | Research Activity |
| Name and address of employer | National Research and Development Institute for Gas Turbines COMOTI<br>220 D Iuliu Maniu Bd., sector 6, cod 061126, OP 76, CP174<br>Bucharest, Romania. |
| Type of business or sector | Research and Development of Propulsion Systems for Unmanned Aircraft. Multi-role Drones Department |
| Dates | **June 2022-present** |
| Occupation or position held | Doctoral School of the Faculty of Aerospace Engineering, University Politehnica of Bucharest, IOSUD |
| Main activities and responsibilities | Doctoral supervision |
| Name and address of employer | University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest, ROMANIA |
| Type of business or sector | High Education |
| Dates | **October 2020-2023** |
| Occupation or position held | Associate Professor in Faculty of Aerospace Engineering |
| Main activities and responsibilities | Didactic activities, Research activities |
| Name and address of employer | University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest,<br>ROMANIA |
| Type of business or sector | High Education |
| Dates | **October 2014-2020** |
| Occupation or position held | Lecturer in Faculty of Aerospace Engineering |
| Main activities and responsibilities | Didactic activities, Research activities |
| Name and address of employer | University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest,<br>ROMANIA |
| Type of business or sector | High Education |
| Dates | **December 2014-2017** |
| Occupation or position held | Senior Scientist |
| Main activities and responsibilities | Research Activity |
| Name and address of employer | National Research and Development Institute for Gas Turbines COMOTI<br>220 D Iuliu Maniu Bd., sector 6, cod 061126, OP 76, CP174<br>Bucharest, Romania. |
| Type of business or sector | Acoustic research |
| **Education and training** | |
| Dates | **October 2025-** |
| Title of qualification awarded | Master Degree |
| Principal subjects/occupational skills covered | Master in Applied Psychology in National Security |
| Name and type of organization providing education and training | University of Bucharest, Faculty of Psychology |
| Level in national or international classification | Master Studies |

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| Dates | **2022** |
| Title of qualification awarded | Habited in the Field of Doctoral Studies in Aerospace Engineering, Habilitation Certificate (Order of the Ministry of Education and Research 4001/08.06.2022) |
| Principal subjects/occupational skills covered | Title of the habilitation thesis: "Contributions in the field of environmental aviation" Doctoral supervision in the Field of Doctoral Studies in Aerospace Engineering |
| Name and type of organization providing education and training | University POLITENICA of Bucharest Faculty of Aerospace Engineering |
| Level in national or international classification | Category 1 - Advanced Research and Education University |
| Dates | **October 2010-february 2014** |
| Title of qualification awarded | Doctoral Degree |
| Principal subjects/occupational skills covered | Thesis “Contributions regarding noise attenuation of the jets gas nozzles using complex chevrons systems” scientific advisor: Professor V. Stanciu |
| Name and type of organization providing education and training | University POLITENICA of Bucharest Faculty of Aerospace Engineering |
| Level in national or international classification | Doctoral Studies |
| Dates | **October 2009- June 2011** |
| Title of qualification awarded | Master Degree |
| Principal subjects/occupational skills covered | Master in Aerospace Propulsion and Environmental Protection |
| Name and type of organization providing education and training | University POLITENICA of Bucharest Faculty of Aerospace Engineering |
| Level in national or international classification | Master Studies |
| Dates | **October 2006- June 2010** |
| Title of qualification awarded | Bachelor of Science |
| Principal subjects/occupational skills covered | Plasma Physics, Spectroscopy and Physics of Lasers, Nuclear Physics, Physics of Solid, Electrical and Magnetism, Physics Quantum, Mechanics<br>**Diploma "Plasma Propulsion"** |
| Name and type of organization providing education and training | University of Bucharest Faculty of Physics |
| Level in national or international classification | Higher Education |
| Dates | **October 2004- June 2009** |
| Title of qualification awarded | Bachelor of Science |
| Principal subjects/occupational skills covered | Mathematics, Gaz dynamics, Calculation and construction of turbomachines, piston engines, rocket propulsion, Airplane mechanics,<br>**Diploma "Liquid oxygen and liquid hydrogen engine rocket in a single stage for suborbital flights"** |

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| Name and type of organization providing education and training | University POLITENICA of Bucharest Faculty of Aerospace Engineering |
| Level in national or international classification | Higher Education |
| **Personal skills and competences** | |
| Mother tongue | Romanian |
| Other language | English |

| Self-assessment | **Understanding** | | | | **Speaking** | | | | **Writing** | |
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| *European level (*)* | Listening | | Reading | | Spoken interaction | | Spoken production | | written expression | |
| English | B2 | Advanced | B2 | Advanced | B2 | Advanced | B2 | Advanced | B2 | Advanced |

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| Social skills and competences | Good team working |
| Organizational skills and competences | • Experience (including managerial experience) in management of national projects.<br>• Diploma for the Innovation Manager Course organized by the ATHENA Center |
| Technical and Scientific Competences | Skills and competences in: analysis of propulsion systems, CAD, CFX-Ansys, pollution reduction, biofuels and green propellants, ignition and testing turbojet engines, propulsion systems, acoustics and signal processing, etc, also skills in management of human and material resources; in project management, in disseminating research results. |
| Computer skills and competences | Strong Knowledge of software's:<br>• RPA - Racket propulsion analysis<br>• GasTurb<br>• ANSYS- CFX,<br>• Solid Edge, CATIA<br>• Fortran,<br>• Math CAD,<br>• Microsoft Office. |
| Didactical competences | Titular of the courses:<br>• Space propulsion systems<br>• Propulsion system technologies<br>• Elements of Gas Turbine Propulsion<br>• Introduction to aerospace engineering<br>• Transient Processes in Turbine Engines<br>• Heat transfer in turboengines<br>• Environmental Aviation<br>• Acoustics and Noise Pollution in Aviation<br>• Team Leader of "Space Piranhas" Students Team- University POLITENICA of Bucharest Faculty of Aerospace Engineering , at The Aerospace Challenge 2016-2017, where they won the "The Airbus Safran Launchers"<br>• Tutor for the students who visited the Faculty of Aerospace Engineering as part of the project „Hai la facultate! Program de vară pentru elevi de liceu – StudUPB" in 2021, 2022 and 2023<br>• Tutor for first-year students at the Faculty of Aerospace Engineering.<br>• Member of the Faculty of Aerospace Engineering Council.<br>• Member of the Doctoral School of Aerospace Engineering Council.<br>• Merit rating for the period 2022-2027 |

Awards Received

**Gold Medal** at the International Innovation and Invention Show EURO POLITEHNICUS 2024, held from November 22-23 th, 2024, in Bucharest, awarded for the "Integrated test bench for micro-turbogenerators under conditions simulating their application on UAV eith remote control via WI-FI." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Madalin Dombrovschi, **Grigore Cican**, Maria Caldarar

**Gold Medal** at the International Innovation and Invention Show EURO POLITEHNICUS 2024, held from November 22-23 th, 2024, in Bucharest, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

**Gold Medal** at the XVI th edition of the International Exhibition EUROINVENT, held from June 8 th, 2024, in Iasi, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

**Gold Medal** at the 4th edition of the International Exhibition INVENCOR, held from September 14th to 16th, 2023, in Deva, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

**Gold Medal** at the XVIII th edition of the International Exhibition INFOINVENT, held from November 22th to 24th, 2023, in Chisinau, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2020 for the work:
**Cican, G**.; Deaconu, M.; Mirea, R.; Ceatra, L.; Cretu, M.; Dobre, T. Investigating the Use of Recycled Pork Fat-Based Biodiesel in Aviation Turbo Engines. Processes 2020, 8, 1196. https://doi.org/10.3390/pr8091196
Cod project: PN-III-P1-1.1-PRECISI-2020-52146

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2020 for the work:
Sandu, C.; Silivestru, V.; **Cican, G**.; Șerbescu, H.; Tipa, T.; Totu, A.; Radu, A. On a New Type of Combined Solar–Thermal/Cold Gas Propulsion System Used for LEO Satellite's Attitude Control. Appl. Sci. 2020, 10, 7197. https://doi.org/10.3390/app10207197
Cod project: PN-III-P1-1.1-PRECISI-2020-52512

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2021 for the work:
**Cican, G.;** Deaconu, M.; Crunteanu, D.-E. Impact of Using Chevrons Nozzle on the Acoustics and Performances of a Micro Turbojet Engine. Appl. Sci. 2021, 11, 5158. https://doi.org/10.3390/app11115158
Cod project: PN-III-P1-1.1-PRECISI-2021-64306

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2021 for the work:
**Cican, G**.; Deaconu, M.; Mirea, R.; Ceatra, L.C.; Cretu, M. An Experimental Investigation to Use the Biodiesel Resulting from Recycled Sunflower Oil, and Sunflower Oil with Palm Oil as Fuels for Aviation Turbo-Engines. Int. J. Environ. Res. Public Health 2021, 18, 5189. https://doi.org/10.3390/ijerph18105189
Cod project: PN-III-P1-1.1-PRECISI-2021-63477

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2021 for the work:
Deaconu, M.; Cican, G.; Toma, A.-C.; Drăgășanu, L.I. Helicopter Inside Cabin Acoustic

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| | Evaluation: A Case Study—IAR PUMA 330. Int. J. Environ. Res. Public Health 2021, 18, 9716. https://doi.org/10.3390/ijerph18189716<br>Cod project:PN-III-P1-1.1-PRECISI-2021-64995 |
| Reviewer of ISI and BDI journals | • Journal of Cleaner Production,<br>• International Journal of Numerical Methods for Heat & Fluid Flow,<br>• Sustainability,<br>• Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering,<br>• Aircraft Engineering and Aerospace Technology,<br>• Journal of the Brazilian Society of Mechanical Sciences and Engineering<br>• Energies,<br>• Aerospace,<br>• Processes,<br>• Electronics,<br>• Applied Sciences,<br>• World Electric Vehicle Journal,<br>• Acoustics,<br>• Sensors,<br>• Mathematics,<br>• Fuels,<br>• INCAS BULLETIN |
| Member of Editorial Boards | Scientific Journal TURBO, ISSN (online): 2559-608X, http://www.comoti.ro/docs/jurnal/Jurnal%20TURBO%20Vol%20VIII%20No%201%202021.pdf |
| Guest Editor | Scientific Board Member in the Technium Romanian Journal of Applied Sciences and Technology https://techniumscience.com/index.php/technium/about/editorialTeam<br>Guest Editor of Special Issue, "Recent Advances in Biofuels Production and Usage: Challenges and Solutions" for ENERGIES Journal, https://www.mdpi.com/journal/energies/special_issues/70SWMND0LN |
| Publications | 8 books<br>2 courses<br>1 problem collections<br>2 laboratory guide<br>**Published 50 articles in indexed and ISI-rated journals.**<br>Published 5 ISI proceedings articles.<br>Published 15 articles in BDI databases.<br>A patent application |
| Web of Science Researcher ID<br>Scopus Author ID<br>Google Academic Profile<br>UEFICD ID | https://www.webofscience.com/wos/author/record/2019242<br>https://www.scopus.com/authid/detail.uri?authorId=55919134800<br>https://scholar.google.ro/citations?hl=ro&user=b5lsszQAAAAJ<br>U-1700-032K-0274 https://www.brainmap.ro/grigore-cican |
| Driving License | Type B and C |
| Annex | Main Research Contributions ( books, published papers, conferences proceedings, projects) in work list |

**Prof. Habil. Dr. Eng. Grigore Cican**

**ANEXE**

**Published papers**

**BOOKS**

1. Valentin Silivestru, **Grigore Cican**, M*odelarea și simularea conducției termice*, 2026, Editura AGIR
2. Sibel Osma, Valentin Silivestru, **Grigore Cican**, *Tehnologii cu impact redus asupra mediului*, Editura Printech 2025, ISBN 978-606-23-1659-4 367
3. Valentin Silivestru, Grigore Cican, *Experimental analysis of jet engine operating regimes*, Editura AGIR, Bucuresti 2025, ISBN 978-973-720-934-4, 111 pages
4. Alina Bogoi, **Grigore Cican**, Daniel Eugeniu Crunteanu, *Fundamentals of acoustic*, **Editura Monitorul Ofician**, Bucuresti, 2024, ISBN 978-973-0-39795-6, **343 pages**
5. Alina Bogoi, **Grigore Cican**, Laurentiu Cristea, *Bazele acusticii, concepte teoretice si aplicatii*, **Editura Monitorul Ofician**, Bucuresti, 2024, ISBN 978-973-0-39801-4, **279 pages**
6. Marius Deaconu, Laurentiu Cristea, **Grigore Cican**, *Acustica in Inginerie,* **Editura Printech**, Bucuresti, 2021, ISBN 978-606-23-1272-5**, 229 pages**
7. **Grigore Cican,** *Introducere in inginerie aerospatiala-curs,* **Editura Printech**, Bucuresti, 2020, ISBN 978-606-23-1158-2, **193 pages**
8. **Grigore Cican,** *Sisteme de propulsie spatiala-Propulsia electrica*, **Editura Printech**, Bucuresti, 2018, **293 pages**
9. **Grigore Cican,** Virgil Stanciu, *Tehnologii de fabricatie a sistemelor de propulsie pentru aviatie- curs universitar*, **Editura Printech,** Bucuresti, 2017, ISBN 978-606-23-0767-7, **270 pages**
10. **Grigore Cican,** Marius Brebenel**,** *Procesee tranzitorii in turbomotoare-Indrumar de laborator*, **Editura Printech**, Bucuresti, 2017, ISBN 978-606-23-0766-0, **124 pages**
11. **Grigore Cican,** Valentin Silivestru, Virgil Stanciu, Razvan Catana, *Pornirea turbomotoarelor, Procese si experimente,* **Editura Printech,** Bucuresti, 2016, ISBN 978-606-23-0683-0, **172 pages**
12. **Grigore Cican,** Virgil Stanciu, *Sisteme de propulsie si corectie spatiala -aplicatii,* **Editura Printech**, Bucuresti, 2015, ISBN 978-606-23-0469-0, **150 pages**
13. **Grigore Cican,** Virgil Stanciu, *Simularea performantelor turbomotoarelor de aviatie in fortran,* **Editura Printech**, Bucuresti, 2015, ISBN 978-606-23-0310-5, **419 pages**

**SCIENTIFIC ARTICLES**

**Articles published in ISI journals**

1. Brinza, I.; Grigorie, T.L.; **Cican**, G. Design, Manufacturing and Experimental Validation of an Integrated Wing Ice Protection System in a Hybrid Laminar Flow Control Leading Edge Demonstrator. *Appl. Sci.* **2026**, *16*, 1347. https://doi.org/10.3390/app16031347
2. Mariuta, D.; Ignat, C.; **Cican, G**. Comparative Study on the Performance of a Conventional Two-Blade and a Three-Blade Toroidal Propeller for UAVs. *Eng* **2026**, *7*, 42. https://doi.org/10.3390/eng7010042
3. Dinu, C.; **Cican, G**.; Osman, S.; Secareanu, R. Performance and Emissions of Camelina Biodiesel–Jet A Blends in a Micro-Gas Turbine as a Sustainable Pathway for Aviation. *Fire* **2025**, *8*, 442. 442; https://doi.org/10.3390/fire8110442
4. **Grigore Cican**, Valentin Silivestru, Florin Popescu, Potentials of butanol and methanol blends as a replacement for Jet A in micro turbojet engines: Stability of transient regimes, Energy Conversion and Management: X, Volume 28, **2025**, 101348, ISSN 2590-1745, https://doi.org/10.1016/j.ecmx.2025.101348.
5. Valentin Silivestru, **Grigore Cican**, Tiberius Florian Frigioescu, Gabriel Badea, Madalin Dombrovschi, Micro turbojet engine nozzle ejector impact on the performance and transient regimes analysis, Case Studies in Thermal Engineering, Volume 74, **2025**, 106965, ISSN 2214-157X, https://doi.org/10.1016/j.csite.2025.106965.
6. **Grigore Cican**, Valentin Silivestru, Cosmic radiation and airline passengers: Sources, exposure levels, health risks, and protective measures - A review, Journal of Space Safety Engineering, Volume 12, Issue 4, **2025**, Pages 615-630, ISSN 2468-8967, https://doi.org/10.1016/j.jsse.2025.10.001.
7. Catană, R.M.; **Cican, G**. AMT Microjets Data Overall Evaluation Ratio at Different Operating Regimes. *Processes* **2025**, *13*, 3200. https://doi.org/10.3390/pr13103200
8. Vladimirescu, T.; Fuiorea, I.; Vladimirescu, T., Jr.; **Cican, G**. Influence of External Store Distribution on the Flutter Characteristics of the Romanian IAR-99 HAWK Aircraft. *Processes* **2025**, *13*, 3065. https://doi.org/10.3390/pr13103065
9. Leventiu, C.; **Cican, G**.; Cristea, L.-L.; Osman, S.; Bogoi, A.; Crunteanu, D.-E.; Cojocea, A.V. Enhanced Performance and Reduced Emissions in Aviation Microturboengines Using Biodiesel Blends and Ejector Integration. *Technologies* **2025**, *13*, 388. https://doi.org/10.3390/technologies13090388
10. Totu, A.-G.; Crunțeanu, D.-E.; Drăgășanu, L.; **Cican, G**.; Levenţiu, C. SPL-Based Modeling of Serrated Airfoil Noise via Functional Regression and Ensemble Learning. *Computation* **2025**, *13*, 203.

https://doi.org/10.3390/computation13090203

11. Totu, A.-G.; Crunțeanu, D.-E.; Deaconu, M.; **Cican, G**.; Cristea, L.; Levențiu, C. Application of Passive Serration Technologies for Aero-Engine Noise Control in Turbulent Inflow Environments. *Technologies* **2025**, *13*, 363. https://doi.org/10.3390/technologies13080363
12. **Cican, G**.; Mitrache, A. Numerical Simulation of Paraffin Energetic Performance Enhanced by $KNO_3$, $NH_4NO_3$, Al, Ti, and Stearic Acid for Hybrid Rocket Applications. *Fuels* **2025**, *6*, 54. https://doi.org/10.3390/fuels6030054
13. **Cican, G**.; Buturache, A.-N.; Silivestru, V. Predicting Photovoltaic Energy Production Using Neural Networks: Renewable Integration in Romania. *Processes* **2025**, *13*, 2219. https://doi.org/10.3390/pr13072219
14. Sterpu, D.-A.; Măriuța, D**.; Cican, G**.; Larco, C.-M.; Grigorie, L.-T. Machine Learning Prediction of Airfoil Aerodynamic Performance Using Neural Network Ensembles. *Appl. Sci.* **2025**, *15*, 7720. https://doi.org/10.3390/app15147720
15. Bogoi, A.; **Cican, G**.; Cristea, L.; Crunțeanu, D.-E.; Levențiu, C.; Totu, A.-G. Comparing a New Passive Lining Method for Jet Noise Reduction Using 3M™ Nextel™ Ceramic Fabrics Against Ejector Nozzles. *Technologies* **2025**, *13*, 295. https://doi.org/10.3390/technologies13070295
16. Vidan, C.; Avram, A.; Grigorie, L.; **Cican, G**.; Nacu, M. Exploring Carbon-Fiber UAV Structures as Communication Antennas for Adaptive Relay Applications. *Electronics* **2025**, *14*, 2473. https://doi.org/10.3390/electronics14122473
17. Bogoi, A.; Strătilă, S.; **Cican, G**.; Crunțeanu, D.-E.; Levențiu, C. Impact of Stochastic Atmospheric Density on Satellite Orbit Stability. *Symmetry* **2025**, *17*, 402. https://doi.org/10.3390/sym17030402
18. Silivestru, V.; **Cican, G**.; Mirea, R.; Osman, S.; Ene, R. Experimental Evaluation of the Impact on Turbo Engine's Performance and Gaseous Emissions While Using n-Heptane Octanol/Jet-A Blends. **Sustainability** 2025, 17, 3924. https://doi.org/10.3390/su17093924,
19. **Cican, G**.; Silivestru, V.; Mirea, R.; Osman, S.; Popescu, F.; Sapunaru, O.V.; Ene, R. Performance and Emissions Assessment of a Micro-Turbojet Engine Fueled with Jet A and Blends of Propanol, Butanol, Pentanol, Hexanol, Heptanol, and Octanol. **Fire** 2025, 8, 150. https://doi.org/10.3390/fire8040150
20. Suatean, B.; **Cican, G**.; Guilain, S.; De-Paz-Alcolado, G. Optimization of Hydrogen Combustion in Diesel Engines: A CFD-Based Approach for Efficient Hydrogen Mixing and Emission Reduction. Fuels 2025, 6, 27. https://doi.org/10.3390/fuels6020027
21. Osman, S.; Ceatra, L.; **Cican, G**.; Mirea, R. Physicochemical Properties of Jet-A/n-Heptane/Alcohol Blends for Turboengine Applications. **Inventions** 2025, 10, 3. https://doi.org/10.3390/inventions10010003 , **I.F. 2.1-Q2**
22. Bogoi, A.; **Cican, G**.; Gall, M.; Totu, A.; Crunțeanu, D.E.; Levențiu, C. Comparative Study of Noise Control in Micro Turbojet Engines with Chevron and Ejector Nozzles Through Statistical, Acoustic and Imaging Insight. **Appl. Sci**. 2025, 15, 394. https://doi.org/10.3390/app15010394 , **I.F. 2.5-Q1**
23. **Cican G,** Mirea R. Performance and environmental impact of ethanol-kerosene blends as sustainable aviation fuels in micro turbo-engines**. International Journal of Engine Research**. 2024;25(12):2204-2214. doi:10.1177/14680874241264750 , **I.F. 2.3-Q2, WOS:001285214100001**
24. Tărăbîc, C.M., **Cican, G**., Dediu, G. i Catană, R.M. (2024). Updating a Didactical Piston Engine Test Bench, from Analogue Instrumentation to Digital. **Tehnički vjesnik**, 31 (4), 1087-1094. https://doi.org/10.17559/TV-20230315000440 , **I.F. 1-Q3, WOS:001258435200009**
25. Totu, A.-G.; Deaconu, M.; Cristea, L.; Bogoi, A.; Crunțeanu, D.-E.; **Cican, G.** Experimental Analysis of Acoustic Spectra for Leading/Trailing-Edge Serrated Blades in Cascade Configuration. **Processes** 2024, 12, 2613. https://doi.org/10.3390/pr12112613, **I.F. 2.8-Q2, WOS:001365963200001**
26. Totu, A.-G.; Olariu, C.-T.; Trifu, A.-T.; Totu, A.-C.; **Cican, G**. Development and Assessment of a Miniaturized Test Rig for Evaluating Noise Reduction in Serrated Blades Under Turbulent Flow Conditions. **Acoustics** 2024, 6, 978-996. https://doi.org/10.3390/acoustics6040054 , **I.F. 1.3-Q3, WOS:001384132100001**
27. Tărăbîc, C.M.; **Cican, G**.; Olariu, C.; Dediu, G.; Catană, R.M. Test Stand for Microjet Engine Prototypes. **Machines** 2024, 12, 688. https://doi.org/10.3390/machines12100688 , **I.F. 2.1-Q2, WOS:001342672800001**
28. **Cican, G**.; Mirea, R. An Experimental Insight into the Use of N-Butanol as a Sustainable Aviation Fuel. **Fire** 2024, 7, 313. https://doi.org/10.3390/fire7090313 , **I.F. 3-Q1, WOS:001323382900001**
29. Catana, R.M.; **Cican, G**.; Badea, G.-P. Thermodynamic Analysis and Performance Evaluation of Microjet Engines in Gas Turbine Education. **Appl. Sci.** 2024, 14, 6754. https://doi.org/10.3390/app14156754 , **I.F. 2.5-Q1, WOS:001286964100001**
30. **Cican, G**.; Mirea, R.; Căldărar, M. Comparative Analysis of Aeroshell 500 Oil Effects on Jet A and Diesel-Powered Aviation Microturbines. **Fuels** 2024, 5, 347-363. https://doi.org/10.3390/fuels5030020, **I.F. 2.7-Q3, WOS:001323501900001**
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4. **Cican Grigore**, Crunteanu Daniel-Eugeniu, *Aerodynamic noise control study of nozzles with triangular chevrons*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2014 the 10th edition, 25–27 Octombrie 2013, Bucuresti, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials Vol. 436 (**2013**) pp 25-31 **WOS: 000262860100107.** https://www.scientific.net/AMM.436.25
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2. Razvan Catana, **Grigore Cican**, *Detailed gas dynamic study of performances for two types turbofan configurations*, 26th DAAAM International Symposium on Intelligent Manufacturing and Automation, DAAAM **2015,** Croatia, https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2015/023.pdf DOI:10.2507/26th.daaam.proceedings.023 (scopus)
3. Catana Razvan-Marius, **Cican Grigore,** *Study of Air Excess in Relation with Engine Parameters for a Generalized Reaction Based on JET-A Fue*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2015 the 11th edition, 25–28 Iunie 2015, Mangalia, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials Vol. 772 (**2015**) pp 395-400, https://www.scientific.net/AMM.772.395 (Scopus)
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5. Catana Razvan-Marius, **Cican Grigore,** *A Global Study of the Performances of a New Turbofan Configuration*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2014 the 10th edition, 26–29 Iunie 2014, Mangalia, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials, Vol. 555 (**2014**) pp 78-83, https://www.scientific.net/AMM.555.78 (Scopus)

**PAPERS PRESENTED AT NATIONAL AND INTERNATIONAL SCIENTIFIC EVENTS NOT INDEXED**

**1.** Constantin Sandu, Dan Brasoveanu, Raluca Voicu, Marius Deaconu, **Grigore Cican**, Felix Zavodnic, *European Personal Aero-Transportation Using of the Double-Flutter Flight Principle for Manufacturing of Personal Flying-Cars by European Aircraft and Car Maufacturers,* 5th CEAS Air & Space Conference **7-11 Septembrie 2015**, Delft Olanda, https://hugepdf.com/download/technical-papers-5th-ceas-air-space-conference_pdf , https://www.researchgate.net/publication/305316081_European_Personal_Aero-Transportation_Using_of_the_Double-Flutter_Flight_Principle_for_Manufacturing_of_Personal_Flying-Cars_by_European_Aircraft_and_Car_Manufacturers

**PATENTS AND PATENT APPLICATIONS**

1. RO138102A0 UNMANNED AIRCRAFT WITH FIXED WING, WITH VERTICAL TAKE OFF/LANDING SYSTEM, WITH THREE ROTOR PROPELLING SYSTEM AND METHOD OF INTERCEPTING SPECIFIC SOUNDS EMITTED BY A POWER-SAW WITH HEAT ENGINE.
   Inventors: FRIGIOESCU TIBERIUS FLORIAN [RO]; BADEA PETRE- GABRIEL [RO]; ANGHEL VICTORAŞ-FLORENTIN [RO]; **CICAN GRIGORE [RO];** CONDRUZ MIHAELA RALUCA [RO]; DIMA MARIUS ADRIAN [RO]

**PROJECTS**

**Project manager:**

1. Intelligent monitoring and prediction system for noise and air quality using AI and Blockchain, MisAIB, Nr. 66PTE/2026, PTE - PN-IV-P7-7.1-PTE-2024-0441
2. Optimized sound absorbent structures for improved acoustic comfort inside helicopter passenger cabin -HeliAC, Nr. 97 BG- PN III-Bridge Grant, PN-III-P2-2.1-BG-2016-0211, P 2 - SP 2.1 - Transfer de cunoaștere la agentul economic „Bridge Grant", period: 2016-2018, http://www.comoti.ro/ro/Proiect_HeliAc.htm
3. Advanced solar thermal propulsion system for increasing of satellite operational life, STRAUSS, Nr. 130, STAR, period: 2017-2019, http://www.comoti.ro/ro/Proiect_STRAUSS.htm?pag=1
4. Studies and research on reducing aircraft engine noise using chevrons, Nr. 81, UPB–EXCELENȚĂ–2015, period: 2016-2017, https://upb.ro/cercetare/competitii-interne-upb/#1524424700792-8e3ae715-a8a0

**Project member:**

1. Aerodynamic Performance Analysis and Noise Reduction of Airfoils Using Passive Flow Control Through Perforated Plates and Serrated Trailing Edges, PN-IV-PCB-RO-MD-2024-0157
2. Detonation Engine Thrust Optimization through Nozzle Integration, PN-IV-P7-7.1-PED-2024-2188, http://www.aero.pub.ro/ro/contracte/
3. Development and implementation of a modern solution to replace Romanian Naval Forces Fast Patrol Boats (Missile) propulsion systems, PN-III-P2-2.1-SOL-2021-2-0169, Call name: P 2 - SP 2.1 - Soluţii – 2021, period: 2021-2024, https://comoti.ro/34sol/
4. Development of a hybrid UAV innovative concept with applications in global warming combating, PN-III-P2-2.1-PTE-2021-0369, P 2 - SP 2.1 - Proiect de transfer la operatorul economic, period: 2022-2024, https://comoti.ro/enforcing/

**Member of the team in contracts with the economic sector:**

1. **Reevaluation and revision of action plans for reducing ambient noise in the municipality of Craiova**, Public procurement subcontracting contract for consultancy services No. 1400/19.09.2018
2. **Study on the development of transport infrastructure in the Central Region and the need to improve regional connectivity**, Subcontracting contract for specialized consultancy services No. 2972/20.08.2021

**Prof. Habil. Dr. Eng. Grigore Cican**