



Floean Florin Gabriel

Date of birth: 11 Dec 1978 | **Nationality:** Romanian | **Phone number:** | **Email address:** gfloean@gmail.com | **Address:**

● WORK EXPERIENCE

7 JAN 2009 – CURRENT Bucuresti, Romania

RESEARCHER I COMOTI - ROMANIAN RESEARCH & DEVELOPMENT INSTITUTE FOR GAS TURBINES

As a specialist in the **Gas Turbine Department**, my role primarily focuses on the **design, optimization, and testing of combustion chamber components** for gas turbine engines. I am responsible for ensuring that these components meet stringent thermal, mechanical, and efficiency requirements in high-temperature environments. My key activities include:

1. Design and Development of Combustion Components:

- Spearheading the development of advanced combustion chamber liners and flame stabilizers.
- Utilizing **additive manufacturing (AM)** to create components with complex geometries, such as cooling channels and graded porosity structures.
- Investigating the effects of **surface roughness** inherent to AM on heat transfer and combustion performance.

2. Thermal and Fluid Dynamics Analysis:

- Performing **computational fluid dynamics (CFD)** and **finite element analysis (FEA)** to simulate heat transfer, airflow, and combustion dynamics within the chamber.
- Optimizing cooling techniques, such as **film cooling** and **transpiration cooling**, to enhance component longevity and efficiency under high thermal loads.

3. Experimental Testing and Validation:

- Leading the design and execution of **laboratory-scale experiments** to validate the performance of combustion components, focusing on heat transfer, flame stability, and emissions reduction.
- Collaborating with cross-functional teams to **integrate sensors and dynamic components** for real-time monitoring and control of combustion processes.

4. Research and Innovation in Combustion Technology:

- Conducting research on **alternative fuels** (e.g., hydrogen) and their impact on combustion stability, emissions, and efficiency.
- Exploring the use of **surface treatments** and **material innovations** to improve the thermal and structural performance of combustion chamber parts.

5. Project Management and Collaboration:

- Overseeing multiple research projects, from concept development to experimental testing, ensuring that project milestones are achieved.
- Collaborating with industry partners, research institutions, and internal teams to drive innovation in combustion chamber design and performance optimization.

1 OCT 2003 – 1 DEC 2008 Bucuresti, Romania

TECHNICAL MANAGER RR TURISM.SRL-

Privat, Investments

● EDUCATION AND TRAINING

2009 – 2014 Iasi, Romania

PH.D ENGINEER (SINCE 2014) Gheorghe Asachi" Technical University of Iasi - Faculty of Mechanical Engineering

Website <https://www.tuiasi.ro/> | **Level in EQF** EQF level 6

1998 – 2003 Bucuresti, Romania

AIRCRAFT ENGINEER Polytechnic University of Bucharest- Faculty of Aerospace Engineering

Website <https://upb.ro/facultati/facultatea-de-inginerie-aerospatala/> | **Level in EQF** EQF level 6

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	B1	B1	B1	B1

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

● DRIVING LICENCE

Driving Licence: AM

Driving Licence: B1

Driving Licence: B

● MANAGEMENT AND LEADERSHIP SKILLS

Project Coordination

- Coordinator for co-financing agreement nr.54EU/20.10.2009 - „Turboshaft Engine Exhaust Noise Identification”
- Coordinator of project PN-III-P2-2.1-PED-2021-0969 (722PED)

Link <https://comoti.ro/h2postcomb/>

● PUBLICATIONS

Publication Details

Scopus profile: <https://www.scopus.com/authid/detail.uri?authorId=39861295300&origin=resultslist>

Google Scholar profile: <https://scholar.google.com/citations?user=aO1VMO0AAAAJ&hl=en>