

## PERSONAL INFORMATION

## Gheorghiță Popovici

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Sex Male | Date of birth 16/04/1976 | Nationality Romanian

## PERSONAL STATEMENT

Experienced, competent and passionate project manager, with strong communication and organisational skills gained in academia, industry and business environments, seeking partnerships in technology ventures.

## WORK EXPERIENCE

2014–Present

## Freelance

Self-employed (France)

- evaluation of project proposals for European Commission (Horizon 2020 and RFCS)
- technology roadmaps, corporate strategy
- software development
- energy management, ISO 50001

2012–2014

## Engineer

Snecma, Group Safran, Melun (France)

- development of bearing and sealing technologies for the prop-fan engine demonstrator SAGE 2
- sealing technology roadmapping
- technical relations with bearing suppliers (SKF, NTN-SNR, FAG)
- Topic Manager of a project in partnership between Snecma, Clean Sky JU and NTN-SNR for the design, testing and manufacturing of the propeller blade bearings of SAGE 2

Business or sector Aeronautics

2006–2011

## Research Engineer

SKF, Engineering & Research Center, Nieuwegein (Netherlands)

- project management, assistance with lubrication technology roadmaps
- implementation of Design for Six Sigma tools into modelling activities
- development of software for Application Engineers
- modelling and validation of lubrication and sealing systems

Business or sector Bearings, Seals, Lubrication Systems, Mecatronics, Services

2001–2005

## Researcher

Universiteit Twente, Enschede (Netherlands)

- modelling and validation of thin film flows
- laboratory management
- publications and participation at international journals and conferences

## EDUCATION AND TRAINING

2001–2005	<b>PhD</b> Universiteit Twente, Enschede (Netherlands) Fluid Dynamics, Numerical Methods, Optical Interferometry, Academic Writing	EQF level 8
2000–2001	<b>Postgraduate diploma (DEA)</b> Universitatea Tehnica "Gheorghe Asachi", Iasi (Romania) Tribology, Lubrication, Contact Mechanics	EQF level 7
1995–2000	<b>Engineer</b> Universitatea Tehnica "Gheorghe Asachi", Iasi (Romania) Thermal Machines and Equipment, Turbines, Thermodynamics, Fluid Dynamics, Strength of Materials, Manufacturing Technologies, Technical Drawing, Computer Programming, Mathematics, Physics, Chemistry	EQF level 6
2013	<b>Risk analysis</b> Snecma, Corbeil (France) Failure Modes, Effects and Criticality Analysis (FMECA/AMDEC)	
2012	<b>Parcours d'intégration à Snecma</b> Snecma, Villaroche (France) Aircraft Engine Technologies	
2009	<b>Project Management</b> SKF, Nieuwegein (Netherlands) Leadership and Communication	
2009	<b>Intellectual Property</b> SKF College, Nieuwegein (Netherlands) Intellectual Propriety, Knowledge Engineering	
2008	<b>Design for Six Sigma Black Belt</b> SKF College, Nieuwegein (Netherlands) Statistics, Probability, Design Of Experiments	
2008	<b>Sealing Solutions Application Engineer</b> SKF, Elgin (United States) Sealing Technologies	
2006	<b>Rolling Bearing Application Engineer</b> SKF College, Nieuwegein (Netherlands) Rolling Bearing Technology	

## PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B1
Dutch	A2	A2	A2	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

## Communication skills

- good communication skills gained through various experiences in multicultural and international environments (Universiteit Twente, SKF Engineering & Research Centre, Snecma)
- control of various aspects of communication: information, meaning, relation/emotion, expression, process

## Organisational / managerial skills

- good organisation skills, proven in organising workshops, technical meetings and the project kick-off meeting for the partnership between Snecma and NTN-SNR.
- experience in the field of project management in EU funded collaborative research projects, gained as Topic Manager of a Clean Sky project.

## Job-related skills

- good analytical ability, enabled by the experience with mathematical modelling, assessment of failure modes of bearings and sealing systems, debugging of computer codes, elaboration of risk and FMEA analysis for the bearings and seals of the demo engine SAGE 2.
- problem-solving oriented approach experienced in carrying out various engineering projects, starting from identification of the problem(s) to proposal of optimised solutions.
- proven experience with evaluation procedures, methodologies and techniques for EU funded projects (Expert ID: EX2012D125340)
- experience with the negotiations of the Implementation Agreement
- knowledge of the scope and aims of Clean Sky JU in particular, and Horizon 2020 programme in general

## Digital competence

- Office suite: Microsoft Office, Open Office, LaTeX, vector drawing, email, Internet, etc.
- Operating systems: Unix/Linux, Windows, Mac OS X
- Simulations : Ansys, Abaqus, STAR-CD, Matlab/Octave, Mathcad, etc.
- Programming: C, Object Oriented C++

## Other skills

- tennis: Fédération Française de Tennis, Tennis Club Remiremont, A1 certified chair umpire

Driving licence B1, B, BE, C, CE

## ADDITIONAL INFORMATION

## Publications

- *Film thickness modulations in starved elasto-hydrodynamically lubricated contacts induced by time varying supply*, ASME Journal of Tribology, 2008, vol. 130, issue 4
- *Amplitude reduction in starved EHL contacts with varying lubricant supply*, 2006, Proceedings of International Joint Tribology Conference
- *Effects of load system dynamics on the film thickness in EHL contacts during start-up*, 2004, ASME Journal of Tribology, vol. 126, pp. 258-266
- *Contact dynamics of EHL contacts with time varying operating conditions*, 2003, Proceedings of 30th Leeds-Lyon Symposium on Tribology, D. Dowson et al., Elseviers Tribology Series, vol. 43, pp. 189-200

## Honours and awards

SKF Excellence Award 2009 for innovation (team member): development of a unique grease life model that predicts the lubricant film and its reliability in grease lubricated bearings. The unique nature of the model makes it possible not only to predict grease life, but also optimising grease selection and bearing design. The scientific knowledge that is encapsulated in this model contains several innovations and is giving SKF a strong competitive advantage.

## Patents

Textured seal: Europe WO2012152808 A1, Issued May 9, 2012

The invention relates to an elastomeric sealing element and to a method of manufacturing an elastomeric sealing element having a contact surface that is provided with a surface texture. The contact surface is provided with a wear-resistant coating and the surface texture is introduced into the coating.

## Projects

Clean Sky, SAGE 2: The Geared Open Rotor Demonstrator project objectives are to demonstrate technologies that contribute to assess open rotor architecture feasibility and environmental benefits, to adapt an existing gas generator and a rig for technology validation and integration demonstration, to develop enabling manufacturing technologies and materials where these are necessary to deliver the engine technologies for demonstration, to deliver and ground test a demonstrator in 2016 and, on the basis of prediction and test data obtained from the engine, to assess the improvements in gaseous and noise emissions that may result from a production open rotor propulsion system.