Curriculum vitae

| PERSONAL INFORMATION | **Florin-Adrian Stancu** |

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Sex Male | Date of birth ▮▮▮▮▮▮ | Nationality Romanian

POSITION — Aerospace Engineer

WORK EXPERIENCE

01/08/2016–Present — Aerospace Engineer

GMV INNOVATING SOLUTIONS SRL, Bucharest (Romania)
www.gmv.com
Design activities in Avionics and On-board Software department.
The main activity is to develop visual navigation systems for spacecraft, which involves:

- Develop category B criticality on-board software for space missions
- Functional engineer simulator development in Matlab/Simulink
- Verification and validation of visual-based navigation systems
- Numerical simulations using Matlab/Simulink
- Proposal of mathematical concepts and algorithms implementation (Matlab and C) to enhance the visual navigation technology
- Usage of PANGU to generate representative images
- The validation of Visual Navigation systems in space representative test benches using dedicated mock-ups (Moon or Phobos)
- Autocoding of GNC system using Simulink for C embedded systems
- Software in the loop simulation using auto-generated code
- Processor in the loop simulations using auto-generated code or manual codding implemented onto representative space processor

Business or sector Aeronautics

30/04/2014–30/09/2016 — Aerospace research assistant

Aeronautics and space research centre (UPB-CCAS), Bucharest (Romania)
www.upb-ccas.ro
Design activities in PN II 196/2012-Mosom project
Subject: Attitude determination and control
The main activity in this project was the development of an attitude control system suitable for nano-satellites.
Business or sector Nanosatellite design

26/11/2014–31/07/2016 — Aviation Engineer

Romanian Airclub
54,Lascar Catargiu, 010673 Bucharest (Romania)
www.aeroclubulromaniei.ro

- Maintaining airworthiness conditions for airplanes owned by the Romanian Airclub and Ground Operation responsible

Business or sector Continuing Airworthiness Management Organisation

EDUCATION AND TRAINING

01/10/2016–Present — PhD studies

University Politehnica of Bucharest - Faculty of Aerospace Engineering, Bucharest (Romania)
www.aero.pub.ro
Fault Detection and Isolation for Spacecraft Control System
The main activity in PhD Aerospace school is the developing of a fault detection and isolation system for satellites

2014–2016	**Master's degree**

University Politehnica of Bucharest - Faculty of Aerospace Engineering, Bucharest (Romania)
www.aero.pub.ro
Avionics and Air Navigation in Aerospace Engineering

- Master Thesis: "Satellite attitude control systems for small satellites"
- Subject: Designing an attitude control system for small satellites
- Participation at the Students Scientific Communications Session-2015 - UPB with the paper "Nanosatellite Attitude determination and control" - awarded with 1st place

2010–2014	**Engineer - Bachelor diploma**

University Politehnica of Bucharest - Faculty of Aerospace Engineering, Bucharest (Romania)
www.aero.pub.ro
Avionics

- Bachelor Thesis: "Nanosatellite control using magnetic actuators"
- Subject: Designing of a detumbling controller
- Participation at the Students Scientific Communications Session-2014 - UPB with the paper "Nanosatellite control using magnetic actuators" - awarded with 2nd place

2010–2013	**Graduation certificate**

University Politehnica of Bucharest - Faculty of Aerospace Engineering, Bucharest (Romania)
www.aero.pub.ro
Pedagogical module, level 1

2006–2010	**Baccalaureate diploma**

"Ion Barbu" high school, Bucharest (Romania)
Profile: Mathematics - Informatics

PERSONAL SKILLS

Mother tongue(s)   Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
En	C1	C1	C1	C1	C1
Spanish	B1	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   Sociable, communicative, quick integration into new teams

Organisational / managerial skills   I am an ambitious person, with good team spirit, synthesis capacity and adaptability when dealing with difficult conditions

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Proficient user

Digital skills - Self-assessment grid

Use : Matlab/Simulink, Mathcad, C, SolidWorks, Windows 7, Windows 10, Office 2010

Driving licence   B

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ADDITIONAL INFORMATION

Courses

- Product Assurance Training Course 2019, ESA-ESEC (Belgium)
- Ladybird Guide for Spacecraft communication Training Course 2019 , ESA-ESEC (Belgium) Live stream
- CubeSat hands-on training week, ESA-ESEC (Belgium)
- Bucharest Astroclub: Astronomy course