



## Europass Curriculum Vitae



### Personal information

Nume / Prenume **PANDELE, Constantin Alexandru**

Adresa

Telefon +40213306397

E-mail

Nationalitate Romanian

Data nasterii

### Work experience

Perioada Iulie, 2015 – Prezent  
Pozitia Cercetator stiintific III  
Activitati Responsabil proiecte GNSS, responsabil dezvoltare software  
Angajator Institutul de Stiinte Spatiale, Magurele, Romania  
Sector Industrie Spatiale

Perioada Noiembrie, 2017 – Prezent  
Pozitia Cercetator stiintific senior  
Activitati Dezvoltare si comercializare produse si tehnologii GNSS  
Angajator Romanian InSpace Engineering SRL, Bucuresti, Romania  
Sector Industrie Spatiale

Perioada Iunie, 2013 – Iulie 2015  
Pozitia Delegat expert  
Activitati Analiza performantei EGNOS, Instrumente EGNOS, Dosarul de integritate si continuitate EGNOS  
Angajator Agentia Spatiale Europeana, Biroul Proiectului EGNOS, Toulouse, Franta  
Sector Industrie Spatiale

Perioada Iunie, 2012 – 2013  
Pozitia Young Graduate Trainee  
Activitati Analiza performantei EGNOS, Instrumente EGNOS  
Angajator Agentia Spatiale Europeana, Biroul Proiectului EGNOS, Toulouse, Franta  
Sector Industrie Spatiale

Perioada Ianuarie, 2009 – Mai 2012  
Pozitia Cercetator  
Activitati Design si implementare software pentru nanosateliti  
Angajator Institutul de Stiinte Spatiale, Magurele, Romania  
Sector Cercetare

Perioada Aprilie, 2005 – Iunie, 2005  
Pozitia Cercetator invitat  
Activitati Cercetare software pentru smartcarduri; Securitate biometrica pentru smartcarduri

Angajator Institute for Computing and Information Sciences, Radboud University, Nijmegen, the Netherlands  
Sector Cercetare academica

## Education and training

Perioada	Septembrie, 2015 – Iulie, 2021 (sustinere publica)
Titlul obtinut	Doctor
Subiecte principale	Teza: "Precise Point Positioning GNSS Receiver for Space"
Numele organizatiei	Universitatea "Politehnica", Bucuresti, Facultatea de Inginerie Aerospatiale
Perioada	Septembrie, 2006 – Iunie, 2008
Titlul obtinut	Master of Science in Space Science and Technology (Erasmus Mundus Spacemaster Program)
Subiecte principale	Space Dynamics, Spacecraft Systems Design, Space Physics, Programming, Embedded Control, Communication, Spacecraft Environment Interaction, Electronics in Space, Image Processing and Remote Sensing, Optics and Radar-based Observations
Numele organizatiei	Lulea University of Technology, Sweden
Perioada	Septembrie, 2006 – Iunie, 2008
Titlul obtinut	Master of Science in Space Technology (Erasmus Mundus Spacemaster Program)
Subiecte principale	Space Systems Modelling and Identification, Optimal and Robust Control, Estimation, Filtering and Fault Detection
Numele organizatiei	Czech Technical University in Prague, Czech Republic
Perioada	Februarie, 2008 – Mai, 2008
Subiecte principale	Adsorption Refrigeration Control and its Space Applications (master thesis research)
Numele organizatiei	Shanghai Jiao Tong University, China
Perioada	Octombrie, 2001 – Iunie, 2006
Titlul obtinut	Control Systems Engineer (bachelor in Automatic Control Engineering)
Subiecte principale	Automatic Control, Control Systems, Robotics, Computer Science, Database Programming, Data Transmission, Electronics, Telecommunications
Numele organizatiei	Universitatea "Politehnica", Bucuresti, Facultatea de Inginerie Aerospatiale

## Personal skills and competences

Limba materna	<b>Romana</b>
Limbi straine	<b>Engleza (C1 – C2), Franceza (C1 – C2), Italiana (A2 – B1)</b>

Competente si abilitati tehnice	Expert in evaluarea performantelor si procesarea datelor SBAS si GNSS. Experienta in programare pentru sisteme integrate si cu functionare in timp real Experienta in programare (C/C++, Java); Experienta in dezvoltare si testare de tehnologii spatiale; Experienta in automatizari; Experienta in proiectarea misiunilor spatiale.
Competente si abilitati sociale	Spirit de echipa Comunicare excelenta Adaptabilitate la medii culturale diverse

Competente si abilitati organizationale    Eficienta, consistenta si determinare in indeplinirea responsabilitatilor;  
Conducator de echipe si proiecte;  
Inovativ si pasionat;  
Gandire analitica si critica.

#### Publicatii :

Mugurel Bălan, M. Piso, Marius Trușculescu, Claudiu Drăgășanu and Alexandru Pandeale: 'Cube-sat Formation Flying: A Suitable Platform For Space Situational Awareness'. In:61st International Astronautical Congress(2010)

Mugurel Bălan, M. Piso, Marius Trușculescu, Claudiu Drăgășanu and Alexandru Pandeale: 'Pluribus -Nanosatellites Formation'. In:60th International Astronautical Congress(2009)

Alexandru Pandeale, Costel Cherciu, Marius Trușculescu, Claudiu Drăgășanu, and Sergiu-Ștefan Mihai: 'COTS based GNSS Receiver with Precise Point Positioning for CubeSats'. In:MATEC Web of Conferences304 (2019).doi:10.1051/mateconf/201930407009

Marius Trușculescu, Mugurel Bălan, M. Piso, Claudiu Drăgășanu and Alexandru Pandeale: 'Scientific Experiments On Board The Goliat Cubesat'. In:62nd International Astronautical Congress, Cape Town,South Africa(2011).

Mugurel Bălan, Marius Trușculescu, Claudiu Drăgășanu, Alexandru Pandeale, and M. Piso. 'Past, Present And Future Of The Romanian Nanosatellites Program'. In:62nd International AstronauticalCongress(2011), pp. 1–5.

Marius Trușculescu, Mugurel Bălan, Claudiu Drăgășanu, Alexandru Pandeale, and M. Piso. 'Nanosatellites: The Tool for Earth Observation and Near Earth Environment Monitoring'. In: Jan. 2012, pp. 25–40.doi:10.5772/28445

Alexandru Pandeale, Antonia Croitoru, Andrei Hulea, Costel Cherciu, Alina Răduțu, Irina Ștefănescu, Katarzyna Urbanska, Dumitru Andrescu, Claudiu Drăgășanu, Marius Trușculescu, and Mugurel Bălan. 'Maritime Environment GNSS Multipath Analysis in the Framework of the MARGOT Project'. In: 33th International Technical Meeting of The Satellite Division of the Institute of Navigation (VirtualION GNSS+ 2020)(2020)

Alexandru Pandeale, Antonia Croitoru, Andrei Hulea, Costel Cherciu, Alina Răduțu, Marco Porretta, Peter Buist, Dumitru Andrescu, Lucian Dutu, Claudiu Drăgășanu, Marius Trușculescu, and Mugurel Bălan. 'GALILEO and GPS Performance in the Maritime Environment'. In: 33th International Technical Meeting of The Satellite Division of the Institute of Navigation (Virtual ION GNSS+ 2020)(2020)

J. Doubek, A. Pandeale, S. Schlueter, and C. Iliopoulos. 'Dual-frequency Multi-constellation SBAS Simulator'. In:28th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION 2015), Tampa, Florida, SUA (2015)

F. Dufour, J. Chamard, O. Hugues, J. Samson, A. Pandeale, and S. Buehler. 'EGNOS Service Performance in Relation with the Elevation Mask of the Monitoring Stations'. In: European Navigation Conference (ENC 2015), Bordeaux, France (2015)

J. Doubek, M. Houdek, A. Pandeale, A. Polivka, and D. Chung. 'Evolution and Industrialization of a SBAS Real-Time Performance Monitoring Tool (EVORA)'. In: European Navigation Conference (ENC2015), Bordeaux, France (2015)

Alexandru Pandeale, Alina Răduțu, Marco Porretta, Antonia Croitoru, Irina Ștefănescu, Claudiu Drăgășanu, Marius Trușculescu, and Mugurel Bălan. 'GEURW: GNSS Environment and user Requirements Characterization on the Danube River'. In:30th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2017), Portland, Oregon, USA(2017), pp. 1822–1851

Alexandru Pandeale, Sergiu-Ștefan Mihai, Dan Șelaru, Mihnea Ion, and Mugurel Bălan. 'Improving GNSS Positioning of Satellites using Artificial Neural Networks'. In: MATEC Web of Conferences304(2019).doi:10.1051/mateconf/201930407010

Alexandru Pandeale, Mugurel Bălan, Dan Șelaru, Mihai Racheru, Claudiu Drăgășanu, Marius Trușculescu, Silvana Radu, and David Binns. 'Trajectory analysis for Cubesat landing on Didymoon in context of AIM mission'. In: 68th International Astronautical Congress, Adelaide, Australia(2011)

Paulo Rosa, Pedro Freire Silva, Baltazar Parreira, Miguel Hagenfeldt, Andrea Fabrizi, Antonio Pagano, Antonio Russo, Samuele Salvi, Murray Kerr, Silvana Radu, Anthonius Daoud-Moraru, Alexandru Pandeale, Adrian Mihail Stoica, Sergiu Ștefan Mihai, David A. K. Pedersen, John Leif Jørgensen, Sergio Tiraplegui Riveras, Rafael Contreras, Alexander Cropp, and Jonathan Grzymisch. 'Autonomous close-proximity operations in space: The PRoBa-3 rendezvous experiment (P3RVX)'. In: 69th International Astronautical Congress (IAC 2018) (2018)

Paulo Rosa, Baltazar Parreira, Andrea Fabrizi, Antonio Pagano, Samuele Salvi, I. Grozea, Murray Kerr, Alexandru Pandeale, Sergiu Ștefan Mihai, Dan Șelaru, Rareș Apostol, Lăpușneanu Alexandru, Mihai Racheru, Sergio Tiraplegui Riveras, Rafael Contreras, and Jonathan Grzymisch. 'A Functional Engineering Simulator for Close-Proximity Operations: The Proba-3 Rendezvous eXperiment (P3RVX) FES'. In:7th International Workshop on Numerical Modelling in Aerospace Sciences, "NMAAS 2019", Bucharest, Romania (2019)

Silvana Radu, Alexandru Pandeale, Mihnea Ion, Antonia Croitoru, Marius Trușculescu, Claudiu Drăgășanu, and Dan Șelaru. 'Multipath Prediction Model for Global Positioning Satellites Using Neural Networks'. In: 68th International Astronautical Congress, Adelaide, Australia (2011)

Alexandru Pandeale, Sergiu-Ștefan Mihai, Dan Șelaru, Marius Trușculescu, Mugurel Bălan, and Claudiu Drăgășanu. 'Improving Satellite On-Board Orbit Estimation with Artificial Neural Networks'. In: 71st International Astronautical Congress the Cyberspace Edition(2020)