

PERSONAL INFORMATION

Maciej Jerzy Paśnikowski

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Gender Male | Date of birth 10 July 1987

Nationality Polish



PROFESSIONAL EXPERIENCE

July 2013 – Present

GNSS Navigation Engineer & Marie Curie ITN Early Stage Researcher

Name and address of employer	GMV Aerospace and Defence S.A.U., Madrid, Spain
Main activities and responsibilities	Research on navigation in harsh environments: characterization of the GNSS observables behavior in urban propagation conditions. Searching for a trade-off among existing techniques of navigation, mainly focusing on carrier-phase techniques and integrity of the solution. Recently, working on incorporating RTKLIB to hybrid navigation algorithms developed at the company. My work is performed under MULTI-POS (Multi-technology Positioning Professionals) - the FP7 Marie Skłodowska-Curie Initial Training Network (ITN), supported by the European Commission.

March 2015 - August 2015

Invited researcher

Name and address of employer	Universitat Autònoma de Barcelona, Bellaterra (Barcelona), Spain
Main activities and responsibilities	Research work with Signal Processing for Communications and Navigation (SPCOMNAV) group, focused on multipath detection and integrity in navigation in constrained environments, resulting in several articles. The work was performed as a secondment in MULTI-POS Marie Skłodowska-Curie ITN.

September 2011 - June 2013

Technical Support Engineer

Name and address of employer	TPI Sp z o. o., Warszawa, Poland
Main activities and responsibilities	Testing and implementing the newest surveying solutions in the offer of TPI Sp. z o. o., the official distributor of Topcon and Sokkia geodetic and surveying instruments, and software in Poland. Design, installation, implementation and maintenance of CORS network (over 120 stations) of TPI Sp. z o. o. (TPI NETpro)

April 2011 - August 2011

General assistance for applications and services group

Name and address of employer	Astri Polska Sp z o. o., Warszawa, Poland
Main activities and responsibilities	Assistance in development of the Applications and Services division, looking for market opportunities for a newly created company

October 2010 - June 2011

Teaching assistant intern

Name and address of employer	Warsaw University of Technology, the Faculty of Geodesy and Cartography, Warszawa, Poland
Main activities and responsibilities	Teaching in laboratory classes within the courses of Geodesy and Satellite Geodesy, Department of Geodesy and Geodetic Astronomy; assistance in the research projects conducted in the Department

August 2010

Internship

Name and address of employer	ASG-EUPOS Headquarters, Head Office of Geodesy and Cartography, Warszawa, Poland
Main activities and responsibilities	General help in the maintenance of the system, development of the tools available for the system user

EDUCATION AND TRAINING

May 2014 – Present

Doctor of Philosophy studies in Electronic and Telecommunication Engineering

Name of the university

Universitat Autònoma de Barcelona, Bellaterra, Barcelona, Spain

Working title of the thesis: "Advanced assistance services of high performance in harsh environments"

February 2010 - December 2011

Master of Science in Engineering

Name of the university

Warsaw University of Technology, the Faculty of Geodesy and Cartography, Warszawa, Poland

Principal subjects

Geodesy and Cartography with the major in Geodesy and Satellite Navigation

MScE thesis title: "Influence of individual GPS antenna calibrations on station positions in a GPS regional network"

October 2006 - February 2010

Bachelor of Science in Engineering

Name and address of the university

Warsaw University of Technology, the Faculty of Geodesy and Cartography, Warszawa, Poland

Principal subjects

Geodesy and Cartography

PERSONAL SKILLS

Mother tongue

Polish

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2
Spanish	C1	C1	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference \(CEF\) level](http://europa.eu/cefr/)

IT skills and competences

- Good command of Matlab — code development for research purposes in EC IGNSSRX project and for other research purposes, especially for the analysis of GNSS observables, RTK and PPP navigation results, cycle slip detection
- General knowledge of C/C++ – utilized for integrating tools written in C at GMV with C++ RTKLIB functions for hybrid navigation algorithms
- general knowledge of Perl and Bash scripting gained during master thesis and PhD research
- knowledge of Windows, Linux and Mac OS X operational systems
- abilities to use office equipment (e.g. word processing, spread sheets, powerpoint, email, internet, etc.) and creating documents in \LaTeX

Organisational skills

- Prioritizing, attention to details, analytical skills, ability to determine the problem - gained during my research work at GMV and PhD studies
- Communication skills, team skills, problem solving, ambition to motivate myself and team members, tracking tasks and multitasking – skills gained through work for Students' Union at the university
- Organizing work of the team members - gained in Students' Union and coordinating work of CORS installation team at TPI Sp. z o. o.

Social skills and competences

- Team spirit evolved during work in Students' Union
- good ability to adapt to multicultural environments, interacting with people at different levels gained through my work experience in ITN MULTI-POS

- Other relevant skills and competences – Reading volumes of material, writing scientific papers, writing reports, applying professional knowledge, gathering information — gained at research work in GMV and PhD research

ADDITIONAL INFORMATION

- Recent publications M. J. Paśnikowski, E. Domínguez, GMV, Spain; E. Aguado, D. Lowe, M. Pattinson, M. Hutchinson, NSL, United Kingdom; G. Seco-Granados, J. López-Salcedo, D. Egea-Roca, UAB, Spain; D. Naberezhnykh, TRL, United Kingdom; F. Dovis, Politecnico di Torino, Italy; J.P. Boyero, I. Fernandez, European Commission, Belgium *Challenges for Integrity in Navigation of High Precision*, Proceedings of the 28th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2015)
- D. Egea-Roca, G. Seco-Granados, J. López-Salcedo, UAB, Spain; C. Moriana, M. J. Paśnikowski, E. Domínguez, GMV, Spain; E. Aguado, D. Lowe, NSL, United Kingdom; D. Naberezhnykh, TRL, United Kingdom; J.P. Boyero, I. Fernandez, European Commission, Belgium; F. Dovis, Politecnico di Torino, Italy *Signal-level Integrity and Metrics Based on the Application of Quickest Detection Theory to Multipath Detection*, Proceedings of the 28th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2015)
- N. G. Ferrara, M. J. Paśnikowski, S. M. Sanchez Naranjo, F. A. González, R. Ramos-Pollán, G. Seco-Granados, D. Egea-Roca, M. Solé, M. Toledo, E.S. Lohan *Combined Architecture For Multi-Dimensional Signal Quality Enhancements In GNSS Receivers*, Fifth International Colloquium on Scientific and Fundamental Aspects of the Galileo Programme, October 28th 2015, Braunschweig