

TOMASZ KACMAJOR

Software Engineer



📍 Gdansk, Poland

🎂 Born 15.07.1986

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PROFILE

I'm an engineer with 6 years of experience in software development and microwave engineering. I'm eager to self-improve and enjoy diving into new ideas related to the modern technology and science.

COMPETENCIES

- Software Development
- Microwave Engineering
- Machine Learning
- Computer Vision
- Robotic Solutions

WORK HISTORY

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|-------------------|---|
| 2017-06 - present | Software Engineer
Rovsing A/S
Developing software, mostly in Java, which controls Electrical Ground Support Equipment used for satellite hardware testing. |
| 2017-02 - 2017-05 | Software Engineer
IHS Markit
Development and maintenance of CMS system in .NET technology. |
| 2015-06 - 2017-01 | Head of Software R&D
SpaceForest
Developing strategy for projects within small team, code implementation (C#), integration with SCARA robots, tests and customer support. |
| 2013-06 - 2015-05 | R&D Engineer
SpaceForest
Filter Tuning Software full-stack development, testing, integration with SCARA robots and measurement equipment, maintenance on customer side. Design of vehicles visual recognition systems. |
| 2009-09 - 2013-06 | R&D Engineer
Telemobile Electronics
Development of software for telecommunication equipment diagnosis, IT maintenance, scientific research of microwave filter tuning methods and machine learning algorithms, development of software for filter tuning. |
| 2008-07 | Summer internship
Tstronic
Assisting in assembling and testing of electronic modules. |

EDUCATION

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| 2005 - 2010 | Gdansk University of Technology
Master of Science degree obtained in Faculty of Electronics, Telecommunications and Informatics, Specialization in Electronics

Master thesis: "Visual recognition algorithms for vehicles counting and classification" - application written in C++ and OpenCV |
| 2003 - 2005 | Gdynia Bilingual High School No. 3
Profile of mathematics and computer science |

SKILLS

- Programming technologies: .NET/C#, Java, WinForms, Swing, Object Oriented Design
- And familiar with: Python, C++, OpenCV, Qt, SQL, Matlab
- Tools: VS2015, Eclipse, NUnit, JUnit, Git, SVN, R#
- Machine Learning: Artificial Neural Networks, Fuzzy Systems, SVM, optimization methods,
- Microwave engineering: filter tuning and design, using and programming measurement equipment e.g. VNA, familiar with ADS and CST software,
- Solving problems in stressful situations, good communication skills

LANGUAGES

- Polish - native
- English - fluent, professional proficiency (Certificate of Advanced English)

ARTICLES AND ACHIEVEMENTS

- Author of a technical blog (.NET, Machine Learning, Computer Vision) - www.tomaszkacmajor.pl
- Co-authored 14 articles on microwave filter topic, gave 11 presentations on international conferences. Full list of papers: www.researchgate.net/profile/Tomasz_Kacmajor
- Main papers:
 - T. Kacmajor, J.J. Michalski, "Neuro-Fuzzy Approach in Microwave Filter Tuning", *Microwave Symposium Digest (MTT), 2011 IEEE MTT-S International Microwave Week* June 5-10, Baltimore, MD, USA 2011
 - T. Kacmajor, J. J. Michalski, J. Gulgowski, "Filter Tuning and Coupling Matrix Synthesis by Optimization with Cost Function Based on Zeros, Poles and Hausdorff Distance", *MTT-S Int. Microwave Symp. Digest*, Montreal, Canada, 2012
 - T. Kacmajor and J. J. Michalski, "Filter tuning based on linear decomposition of scattering characteristics" *Progress In Electromagnetics Research* Vol. 135, 451-464, 2013
- Co-authored a chapter in a book:
J. J. Michalski, J. Gulgowski, T. Kacmajor, M. Mazur, „Artificial Neural Network in Microwave Cavity Filter Tuning”, In A. Georgadis, H. Rogier, L. Roselli, P. Arcioni (eds), [Microwave and Milimeter Wave Circuits and Systems: Emerging Design, Technologies and Applications](#), First Edition, 2012 John Wiley & Sons, Ltd., Chichester UK
- Awarded "Recognition with distinction" at Young Scientist Contest at MIKON 2012, 19th International Conference on Microwaves, Radar and Wireless Communications for the paper "Approximation of filter characteristic to tuning element positions using coarse set"