Krzysztof SKORUPSKI

Address: ---
Date and place of birth: 5 August 1986, Tarnowskie Góry, Poland

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Professional experience:

2016 –	Assistant professor at Wrocław University of Technology.
2013 – 2016	Research / Teaching assistant at Wrocław University of Technology.
2012 – 2013	Teaching assistant (professional practice for PhD students).
2011 – 2012	Research assistant at Stiftung Institut für Werkstofftechnik.
2010 – 2011	Teaching assistant (professional practice for PhD students).
2010	Vice-chairman of the local electoral committee during the Presidential Election.

Professional awards:
(2016): The nomination for the “Iuvenes Wratislaviae" award / The award for achievements.
(2015, 2016): The award for achievements and creating a positive image of Wrocław University of Technology.
(2013, 2014, 2015, 2016, 2017): Supplementary research funding / The “Young Scientists” programme.

The up-to-date list of publications can be found on my web page.

Education:

2010 – 2016	PhD studies at Wrocław University of Technology, Faculty of Electronics. Thesis: Light scattering by sintered fractal-like aggregates / Rev. 1, 2.
2005 – 2010	MSc studies at Wrocław University of Technology, Faculty of Electronics. Thesis: The use of artificial neural network in biometric systems.

Academic awards:
(2016): The decision of the Faculty Council to honor the PhD thesis.
(2015): Supplementary scholarship for the best PhD students.
(2010): The congratulatory letter for finishing MSc with honors.
(2006, 2007, 2008, 2009, 2010, 2011, 2012): Scholarship for MSc / PhD students.

Professional skills:

- **Programing/script languages:** Java, C/C++, Assembly, Matlab/Simulink, LabVIEW, etc.
- **Microcontroller architecture:** ARM, AVR, DSP, MSP430, etc.
- **Relative databases:** MS Access, MySQL, etc.

- Knowledge of object oriented programming and design patterns / Ability to design multithreaded applications.
- Knowledge of microcontroller programming, communication interfaces and sensors.
- Ability to design and analyze electronic circuits using: Altium Designer, PSpice, etc.
- Knowledge of Windows/Linux operating systems and numerous graphics/office programs, including LaTeX.
- Experience in writing/reviewing scientific papers, teaching students and working in international teams.
- Experience in managing scientific projects and controlling related expenses.
- Experience in creating mathematical models of physical phenomena.
- Vast knowledge of light-based technologies and material science.
- Ability to find relevant information quickly and efficiently using different online/offline sources.

The up-to-date list of professional trainings and courses can be found on my web page.

Language skills / Internships:

C1 – English	Experience acquired by writing papers and working in international teams / CAE.
B2 – German	Experience acquired by working and living in Germany.
B1 – Spanish	Education ended on B2 level (at the moment the knowledge is passive).
A1 – Norwegian	Education started in 2016.

08.2017	Investigation of heterojunctions / Detection of bacteria using light / IWT.
08.2016	Modeling the light scattering phenomenon using the BEM algorithm / IWT.
07.2015	Adapting the DDA algorithm for exceptionally large fractal-like aggregates / IWT.
07.2014	Retrieving morphological parameters from microscopy images / VKI.
06.2013 – 09.2013	Modeling of the sintering process / Identifying necks between ITO particles / IWT.
09.2011 – 08.2012	Investigation and modeling of the black carbon aggregation process / IWT.

Additional skills / Interests:

- The title of the Certified Emergency Medical Responder.
- European Driving License, cat. A/B.

- Various kind of sports: martial arts (Goju-Ryu, Wing-Tsun), yoga, windsurfing, tennis/squash/badminton, etc.
- Traveling, hiking, meeting new people, experiencing different cultures.
- Learning about computer science, image processing, artificial intelligence and biometrics.
- Topics related to cosmology, philosophy and psychology.

Research field:

- Photonics / Plasmonics
- Machine vision
- Tropospheric particles
- The aggregation process
- Light scattering
- Composite materials
- Climate changes
- The sintering process
- Nanoparticle detection and measurement
- Modelling of physical phenomena
- Fractal geometry

References:

Dr.-Ing. Thomas Wriedt
Director of the “Powder and Particle Measurement” group at IWT Bremen (Stiftung Institut für Werkstofftechnik).
Badgasteiner Str. 3, 28359 Bremen

The extended version of the CV with all the attachments can be found on my web page