

Curriculum Vitae

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Education

2012-2016 **Gdansk University of Technology, Gdańsk, Poland**
Faculty of Electrical and Control Engineering
Bachelor of Electrical Engineering - 4.933/5.5

2014 - 2018 **Gdansk University of Technology, Gdańsk, Poland**
(Expected) *Faculty of Applied Physics and Mathematics*
Bachelor of Applied Physics - 4.630/5.5

2009 - 2012 **High School No. XIV, Gdynia, Poland, Poland**
Mathematics - Physics profile

Experience

07.2014 - 08.2014 **Internship at Arex Company - Department of Electronics Design and Technology**

- designing a controller for charging supercapacitors with constant power
- PCB project in Altium Designer and testing

07.2015 - 08.2015 **Internship at Space Research Center Polish Academy of Sciences - department of LMRS - Space Mechatronics and Robotics Laboratory**

- simulation of Levitated Spherical Actuator for satellite Attitude Control System in Matlab

04.2015 - 02.2016 **Research Project at Gdansk University of Technology - Department of Power Electronics and Electric Machinery**

- designing an evaluation board for testing fast switching power transistors - PCB project in Altium Designer
- research connected with fast switching power transistors GaN and comparison with current technology of power transistors Si and SiC

10.2015 - 02.2016 **Thesis: Extension and modification of the laboratory stage for testing transistors**

- designing a flyback converter for Little Box Challenge - PCB project in Altium Designer

since 03.2015 **Student Research Group - SKALP in Gdańsk University of Technology**

- 03.2015 - 09.2016 LEM Mars Rover 1.0 - robot for University Rover Challenge
 - implementation of inverse kinematic for robotic arm
 - managing ROS system
- 09.2016 - LEM Mars Rover 2.0 - robot for University Rover Challenge
 - autonomous navigation and computer vision
 - simulation in Gazebo
 - managing ROS system

Publications

- 2016 "Performance Comparison of a 650 V GaN_{SS}FET and CoolMOS," P. Czyż, A.Reinke, A. Cichowski, W. Sleszynski, in Proc. of the IEEE 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-ENG), Bydgoszcz, Poland 2016, p.438-443
- 2016 "Application of GaN transistors in high-frequency DC/DC converters", P.Czyż, A.Reinke, M.Michna, Scientific Conference WD2016 - Lublin, Poland (Published in Przegląd Elektrotechniczny - journal)

Achievements/Workshops/Scholarships

- 2013 The best freshman of Faculty of Electrical and Control Engineering in Gdansk University of Technology
- 2013,2014,2015 One year Chancellor's Scholarship for the best students of Gdansk University of Technology
- 05.2014-07.2014 European Mars Conference "Humans in Space" - European Rover Challenge
- 04.2015-06.2015 Design Thinking Project - 12-weeks workshops in Design Thinking and creating a product for people in wheelchairs, Gdańsk, (2nd place)
- 09.2015 Volunteer for European Rover Challenge 2015
- 11.2015 Participation in the 3rd Conference of Aerospace Robotics
- since 03.2015 Student Research Group - SKALP in Gdańsk University of Technology
- 07.2016 UK's University Rover Challenge - 2nd place
 - 09.2016 European Rover Challenge
- 2016 Certificate from MOOC (Massive Open Online Courses):
- Control of Mobile Robots (Georgia Institute of Technology; 94,4%)
- Robotics: Aerial Robotics (University of Pennsylvania; 97,4%)
- Robotics: Mobility (University of Pennsylvania; 96,7%)
- Robotics: Computational Motion Planning (University of Pennsylvania; 99,3%)
- Confronting the Big Questions: Highlights of Modern Astronomy (University of Rochester; 89%)
- Astrobiology and the Search for Extraterrestrial Life (University of Edinburgh; 90,7%)
- The 3D Printing Revolution (University of Illinois at Urbana-Champaign; 100%)

Skills

C/C++/Python
Robot Operating System (ROS)
programming microprocessors (STM, TI, ATMEGA)
Inventor, Solidworks (simulation - certificate),
Altium Designer (certificate)/Eagle,
Matlab/Simulink
Comsol Multiphysics/ANSYS
good knowledge in Physics and Mathematics,

Languages

Polish - native
English - intermediate+
German - basic

Interests

basketball/astronomy/rocket science/space technology/robotics

