

Maciej P. Kopec

Na Popielówkę 75P/2
32-087 Zielonki, Poland
☎ +48 515 083 938
✉ maciej.p.kopec@gmail.com
Date of birth: 11th April 1991

Education

- 2015–2016 **PhD, AGH-UST, Cracow.**
Major: **Physics** at Faculty of Physics and Applied Computer Science
- 2014–2015 **MSc, AGH-UST, Cracow, 5.0.**
Major: **Technical Physics** at Faculty of Physics and Applied Computer Science
- 2010–2014 **BSc, AGH-UST, Cracow, 4.5.**
Major: **Technical Physics** at Faculty of Physics and Applied Computer Science

Professional experience

- December 2014 – present **Beam diagnostics and Instrumentation Specialist, National Synchrotron Radiation Centre 'Solaris'.**
- Electronic readout and measurement systems design.
 - Design for manufacture and cases.
 - Electronic prototyping and reworking.
 - Beam instrumentation diagnostics and assembly.
 - Beam diagnostic equipment design and maintenance.
- May 2016 – August 2016 **Embedded systems developer, Organisation Européenne pour la Recherche Nucléaire (CERN).**
- Development of 1G ethernet link on ZC706 evaluation board using Zynq SoC
 - Detector readout systems testing and debugging
 - Setting up development environments for detector readout systems
- January 2014 – June 2014 **Hardware development intern, Woodward Poland sp. z o.o..**
- Electrical circuit design.
 - Working PCB prototypes (e.g. soldering under a microscope, test preparation).
 - Measurements and data analysis.
 - RoHS directive compliance verification.
- July 2013 – August 2013 **Electrical engineering trainee, Faculty of Physics and Applied Computer Science.**
- Programming microcontrollers with ARM Cortex-M3 core.
- 2008–2013 **Web-developer, Back-end and front-end web development.**
- Preparing graphic files for HTML and CSS coding.
 - HTML, CSS and jQuery front-end development.
 - Preparing custom templates for Wordpress.
 - Writing plugins and snippets for CMS systems (Wordpress, Joomla).

Courses and certificates

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|-------------|--|-----------------|
| In progress | Advanced Hardware Design | FEDEVEL Academy |
| In progress | Advanced PCB Layout Course | FEDEVEL Academy |
| June 2017 | Accelerator Power Electronics Engineering (Grade: Excellent) | USPAS June 2017 |

June 2017	Pulsed Power Engineering (Greade: Outstanding)	<i>USPAS June 2017</i>
December 2016	Learn Altium Essentials	<i>FEDEVEL Academy</i>
April 2016	PCB design at RF — multi-Gigabit transmission, EMI control and PCB materials	<i>Cadence GmbH</i>
April 2016	Essential high-speed PCB design for signal integrity	<i>Cadence GmbH</i>

Last year publications

As a corresponding author

- M.P. Kopeć et al., *Universal digital aggregator for in-line signal processing*, IPAC 2017

As a co-author

- A.I. Wawrzyniak et al., *Performance of Solaris storage ring*, IPAC 2017
- A. Kisiel et al., *Beta function measurement in the Solaris storage ring*, IPAC 2017

University and private projects and designs

- July 2014 – **Master thesis.**
- September 2015 Subject: Control interface for SALT ASIC for LHCb detector tracker upgrade
 - Hardware I²C interface implementation in Verilog.
- July 2013 – **Bachelor thesis.**
- October 2013 Subject: Demo application for colour touchscreen working in embedded system
 - Design and implementation of GUI library for LPC1768 microcontroller with a demo application.

Languages

English	Fluent (FCE)
Russian	Basic
Japanese	Basic

Learning in progress

Other skills

Programming languages	C, C++ (basic), Python, Verilog, SystemVerilog, LabView (basic), VHDL, SQL (more than basic), MATLAB (basic), Simulink(basic)
Design software	KiCad, EAGLE 6 (schematic and layout), Altium Designer, LTspice IV, Xilinx ISE, Xilinx Vivado (more than basic), Xilinx SDK (basic), Keil uVision, Atmel Studio, Eclipse
Other software and technologies	Linux, L ^A T _E X, git, Wordpress, MS Office
Additional qualifications	SEP 1 kV license, driving license, good knowledge of circuits and signals theory, coping with analytical problems

Interests

- volleyball, cycling, books, DIY, snooker, e-sports, physics.

Disclaimer

I hereby authorize you to process my personal data included in my job application for the needs of the recruitment process in accordance with the Personal Data Protection Act dated 29.08.1997 (uniform text: Journal of Laws of the Republic of Poland 2002 No 101, item 926 with further amendments)