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Maciej P. Kopeć

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2015-present **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

2007–2010 4th High School, Radom Specialization: mathematics and physics

Professional experience

December 2014 - National Synchrotron Radiation Centre "Solaris"

Beam instrumentation and diagnostics specialist

present o Electronic readout and measurement systems design.

- Design for manufacture and cases.
- Electronic prototyping.
- Electrical reworking.
- Beam instrumentation diagnostics and assembly.
- Beam diagnostic equipment design and maintenance

January 2014 - Woodward Poland sp. z o.o.

Hardware development intern

June 2014

- Electrical circuit design.
- Reworking and servicing PCB prototypes (e.g. soldering under a microscope, test setup preparation).
- Measurements and data analysis.
- RoHS directive compliance verification.

July 2013 -August 2013

Faculty of Physics and Applied Computer Science

Electrical engineering

• Programming microcontrollers with ARM Cortex-M3 core.

trainee

Courses and certificates

Later in 2016 Advanced PCB Layout Course

FEDEVEL Academy

Later in 2016 Learn Altium Essentials

FEDEVEL Academy

PCB design at RF — multi-Gigabit transmission, EMI April 2016

control and PCB materials

Cadence GmbH

April 2016 Essential high-speed PCB design for signal integrity

Cadence GmbH

University and private projects and designs

October 2014 - Free fall measurement device

University project

January 2015

- Atmega8 based custom PCB designed to measure free fall dynamics using LEDs and phototransistors. Data is acquired by an internal 10-bit SAR ADC and then sent to a PC via RS-232 port.
- Fully functional revision 1.
- Revision 2 hardware prototyping in progress.

July 2014 - Control interface for SALT ASIC for LHCb detector

Master thesis

September 2015 tracker upgrade

• Hardware I²C interface implementation in Verilog. June 2014 - Analog filter measurement automation software

University project

Currently beta version. Will be used as a part of the Electronics lab for third year students.

December 2013 - PS/2 driver in Verilog

University project

January 2014

Design, implementation, synthesis and simulation of simple PS/2 driver in Verilog.

October 2013 -

Digital to analog converter

University project

December 2013

o Parallel loaded, resistor ladder based, 8-bit DAC with nonlinearities less than 0.5 LSB, simulations included temperature sweep and Monte Carlo simulations.

October 2013

July 2013 - Demo application for colour touchscreen working in embedded system Bachelor

thesis

 Design and implementation of GUI library for LPC1768 microcotroller with a demo application.

Languages

English Fluent (FCE)

Russian Basic

Other skills

Programming C, C++ (basic), Python, Verilog, VHDL, SQL (more than basic), MATlanguages LAB (basic), Simulink(basic)

KiCad, EAGLE 6 (schematic and layout), LTspice IV, Xilinx ISE, Xilinx Design software Vivado (more than basic), Xilinx SDK (basic), Keil uVision, Atmel Studio, **Eclipse**

Other software and technologies

Linux, LATEX, git, Wordpress, MS Office

Additional SEP 1 kV license, driving license, good knowledge of circuits and signals qualifications theory, coping with analytical problems

Interests

o books, snooker, e-sports, cycling trips, 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)