



# Hubert Kuczvara



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www.github.com/HiK121/

## Skills

### Office software:

Office( Word Excel Power Point),  
LibreOffice, Windows

### Simulations:

AMESim Simulink DELMIA

### PLC programming:

Siemens: TIA Portal (LD, FB, SCL),  
AllenBradley: Studio5000 (LD, ST)

### Script programming:

MS Visual Studio( C/C++ Python),

### CAD:

CATIA

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[Basics Expert]

## Languages

Polish Native

English B2/C1

German A1

## Certificates

Driving license, B category - - -

Polish Electricians Association  
(SEP) certification -

- operation up to 1 kV 02.2024  
valid to

## Work experience

present-  
-07.2018  
(1 year  
6 months)

### Specialist in design and programming

Primetals Technologies

- PLC Programming (**TIA Portal, Studio5000**)
- Testing of stations, cabinets, devices - I/O check (**TIA Portal, Studio5000**)
- Testing and commissioning of devices (**TIA Portal**)

09.2016-  
-03.2014  
(2 years)

### Project participant

Wrocław University of Technology

Project "**Develop innovative solutions for high pressure vane pumps with integrated mechatronic electric drive**" commissioned by the **National Center for Research and Development**

- Carry out simulation calculations of the load torque courses in the vane pump (**AMESim, MATLAB-Simulink**)
- Development of technological improvements for a vane pump designed for installation in an electric motor (**AMESim, MATLAB-Simulink**)
- Development of simulation model of pressure courses in experimental pump (**AMESim, MATLAB-Simulink**)
- Develop a simulation model of torque courses and pressure courses at steady and dynamic states (**AMESim, MATLAB-Simulink**)
- Preparation of the hydraulic measurements results of the motor-pump assembly (**AMESim, MATLAB-Simulink**)

02.2015-  
-06.2014  
(8 months)

### Robotics Engineer

RW Swiss Automation

- Offline programming of industrial robots (**DELMIA**)
- Process simulation (**DELMIA**)
- Preparation of documentation (**DELMIA, MS Office: Word, Excel, PowerPoint**)

## Education

present-  
-10.2014

### Construction and Operation of Machines

Mechanical Eng. faculty

Wrocław University of Technology

PhD studies

**thesis topic:** "Analyze of dynamic of vanes in positive displacement variable vane pump"

06.2014-  
-02.2012

### Automatic and Robotics (MSc)

Mechanical Eng. faculty Wrocław

University of Technology

**specialization:** Automation of Machines and Working Processes

**thesis topic:** "The design of control system for the mechatronic fluid power pump"

01.2012-  
-10.2008

### Automatic and Robotics (BSc)

Mechanical Eng. faculty

Wrocław University of Technology

**thesis topic:** "Development of robotic welding technology of the component of car seat"

05.2015-  
10.2010

### Biotechnology

Faculty of Chemistry

unfinished BSc thesis

Wrocław University of Technology

**thesis topic:** "Application of BioPython package for automation of bioinformatic tasks"

## Scholarships

10.2015

**"Entrepreneurship and Soft Skills Training Program for PhDs and Young Scientists"** in Alberta School of Business, University of Alberta, Canada

## Teaching

As PhD student I acquired 495 hours of didactic, teaching students in following courses:

- 60 hours "Hydraulic elements"
- 75 hours "Machine devices and control" (15h in english)
- 360 hours "Hydraulic drive"