



# 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 Wrocław University of Technology
- unfinished BSc thesis  
**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"