



**\*\*Office software:**

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**Office( **Word **Excel **Power Point),
**LibreOffice, **Windows

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### Simulations:

★ AMESim ★ Simulink ★ DELMIA

### PLC programming:

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

### Script programming:

- \*\*MS Visual Studio( \*C/C++ \*\*Python),
- \*\*Matlab

**CAD:**

★★CATIA

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                    ★                ★★                ★★★

[Basics                                  Expert]

Polish	Native
1. <i>Wszystkie</i>	1. <i>all</i>
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100. <i>Wszystkie</i>	100. <i>all</i>

English B2/C1

German A1

## Driving license, B category - - -

Polish Electricians Association  
(SEP) certification -  
- operation up to 1 kV 02.2024  
valid to

present- -07.2018 (1 year 10 months)	<b>Specialist in design and programming</b> <ul style="list-style-type: none"> <li>• PLC Programming (<b>TIA Portal, Studio5000</b>)</li> <li>• Testing of stations, cabinets, devices - I/O check (<b>TIA Portal, Studio5000</b>)</li> <li>• Testing and commisioning of devices (<b>TIA Portal</b>)</li> </ul>	Primetals Technologies
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09.2016– –03.2014 (2 years)	<p><b>Project participant</b> Wrocław University of Technology</p> <p>Project “<i>Develop innovative solutions for high pressure vane pumps with integrated mechatronic electric drive</i>” commissioned by the <i>National Center for Research and Development</i></p>
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- 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)	<b>Robotics Engineer</b> <ul style="list-style-type: none"> <li>• Offline programming of industrial robots (<b>DELMIA</b>)</li> <li>• Process simulation (<b>DELMIA</b>)</li> <li>• Preparation of documentation (<b>DELMIA,MS Office: Word, Excel, PowerPoint</b>)</li> </ul>	RW Swiss Automation
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present- -10.2014	<b>Construction and Operation of Machines</b> PhD studies <i><b>thesis topic:</b></i> “Analyze of dynamic of vanes in positive displacement variable vane pump”	Mechanical Eng. faculty Wrocław University of Technology
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06.2014- -02.2012	<b>Automatic and Robotics (MSc)</b> <b>specialization:</b> Automation of Machines and Working Processes <b>thesis topic:</b> "The design of control system for the mechatronic fluid power pump"	Mechanical Eng. faculty Wrocław University of Technology
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01.2012- -10.2008	<b>Automatic and Robotics (BSc)</b> <b>thesis topic:</b> "Development of robotic welding technology of the component of car seat"	Mechanical Eng. faculty Wrocław University of Technology
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05.2015- 10.2010	<b>Biotechnology</b> unfinished BSc thesis <b><i>thesis topic:</i></b> “Application of BioPython package for automation of bioinformatic tasks”	Faculty of Chemistry Wrocław University of Technology
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10.2015 **„Entrepreneurship and Soft Skills Training Program for PhDs and Young Scientists”** in Alberta School of Business, University of Alberta, Canada

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”