



PATRYK ZADROGA

Automation
Engineer

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- Gorzelnicza 12/7
04-212 Warszawa

EDUCATION

**Bachelor of Electronics
and Telecommunication**

Gdynia Maritime University
10.2012 – 06.2016

COURSES








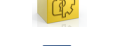






- 31.05.2023 : Digital Threats
Organizer : Kacper Szurek
- 09.09.2022 : KR C4
Organizer : KUKA College Tychy
- 06.2021: TR7231Zpl TwinCAT 3 HMI
- 08.2018: TR1331pl TwinCAT 3 PLC
Organizer: Beckhoff
- 03.2018 : Inverters
- 03.2014 : PLC GX Works 3,
MELSERVO GT DESIGNER
Organizer : Mitsubishi Electric

LANGUAGE

English

Polish

Experience

- 02.2023– Present
Amazemet <https://www.amazemet.com/>
Automation Engineer
 -  Video analysis {detection, segmentation} based on machine learning model YOLOv8 and implementation for PLC system.
 -  Data analysis from machinery and time-dependent issue prediction using LSTM model.
 -  Programming and maintenance Controllino embeded system
 -  Programming Company application based on C++ XirisWeldSDK to handle Xirs XVC-1000 Camera for RTSP restreaming and YOLOv8 segmenation
 -  Programming Company application based on C# SCAPS SDK to handle PSI PS6000W Galvo Welding System to move laser beam based on Machine YOLOv8 segmentation
 - TwinCAT®3** PLC system evaluation and conversion of electronics-based control to PLC system.
 -  TwinCAT NC PTP to handle XYZ Manipulator.
 -  Twincat Modbus TCP/RTU
 -  Twincat Serial Communication
 -  KUKA Robots startup with TwinSAFE to handle profisafe safety as master safety device
 -  Weintek EasyBuilderPro HMI panels programming
 -  Assistance in accomplishing tasks in accordance with the EU grant proposal.
- 09.2022 – 01.2023
SII Sp. z o.o. / al. Niepodległości 69, 02-626 Warszawa
PLC Programmer
 - TwinCAT®3** • Comissioning for Swisslog on Beckhoff PLC
 - KUKA** • KUKA robots, first startup procedure, axis calibration, launching robots in automatic mode.
- 07.2018 – 09.2022
Graham Packaging Poland Sp. z o.o. / Żegańska 1
Automation Engineer
 - TwinCAT®3** • PLC Programing Industrial machines, Blow Molders Leak Testers and Conveyors active take out in TwinCAT 3 and TwinCAT 2
 - PILZ** • PILZ Safety Controller Programing and setup
 -  Creating BOM (Bill of Materials)
 -  Designing and verifying electrical schematics
 -  Implementing changes in the electrical installation of the machine, supervising electricians work, and ensuring compliance with electrical schematics

EXPERTISE

TwinCAT 3

Beckhoff

Industrial Technologies

Computer Networks

HOBBIES

Embedded Systems ESP32

Motorcycles

Chess

Volleyball



- Preparing SCADA Visualisations in AVEVA Indusoft
- Preparing the service program, implementing a new program on-site.
- TwinCAT Motion to control screw in bottle timing machines

10.2017 – 07.2018

Therm-Trade / Nowa Wieś Warszawska

Automation Engineer



- Programming machines for metalworking industry,
- equipment modernization,
- maintenance of the production line

08.2016 – 09.2017

ZPM Mlekpól oddział w Mrągowie / Mrągowo

Maintenance Automation Engineer

Maintenance of operations

Modernization of industrial lines and production machines

11.2021 – present

Github Community



- application to show how to use Twincat.Ads and Twincat.Route
https://github.com/pempek18/Beckhoff_AdsClientConsole
- .net core WinUI application to get all variables from plc print them and control over Windows Desktop client.
https://github.com/pempek18/TwinCat_WinUI_Client
- python application for converting from cartesian to spherical
https://github.com/pempek18/Spherical_coordinate_system