

Michał Martusewicz

BEng

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Education

- 2019– **University of Wrocław**, *Computer science studies, MSc*, Wrocław, Poland.
Thesis: Lattice extending strategies to correct automatic speech recognition system
- 2015–2019 **University of Wrocław**, *Computer science studies, BEng*, Wrocław, Poland.
Thesis: Agile development of an application supporting the tube fittings manufacturing management
- 2015 **English course**, *Atlantic Language School*, Galway, Ireland.
Upper intermediate level
- 2015 **Laureate of Regional Physic Olympiad**.
- 2012–2015 **Secondary School no. III**, Wrocław, Poland.
- 2012 **Regional Science Olympiad**, "*zDolny Ślązak*".
Laureate in Physics and Biology
Finalist in Mathematics, Chemistry and Geography

Work experience

- Jun 2018– **Cloudflight Germany GmbH (formerly Catalysts Deutschland GmbH)**, *Software developer and data scientist*, Frankfurt, Germany.
Projects:
 - **Developing software for special satellites orbits types**
 - The project goal was to simulate and possibly launch satellites on highly elliptical orbit - to have a constant vision on north and south poles
 - Simulating satellite orbits (GMAT, OreKit, Python, Docker)
 - Live tracking and visualization (NumPy, Matplotlib)
 - predicting possible collisions
 - **Airport luggage recognition and measuring system:**
 - The project goal was to embed in airport security gate a system which automatically measures passenger's luggage - to avoid cabin luggage space overloading
 - Creating proper image dataset
 - Image recognition (Python, TensorFlow, object detection API, Docker)
 - Creating point clouds using Intel rgb-d cameras and regular rgb cameras (PyRealSense, NumPy, matplotlib and other)
 - **ShowMySize app** by Twinstar
 - The project goal was to create a backend to an app that measures the body's size and suggests suitable clothes
 - Creating backend of the app (Django, REST API for Django, Postman for testing)
 - Working with Amazon Rekognition
 - **Improving image preprocessing for Austrian social insurance company:**
 - The goal was to improve mobile images of invoices and get better text recognition accuracy
 - Researching for different computer vision techniques
 - Using Google Tesseract OCR
 - **Connecting two databases without common identifiers:**
 - The goal was to connect a product database and not normalized database with product reviews
 - Using various NLP (natural language processing) approaches
 - Created web app for presentation the results in 3 days (Django, Bootstrap)
 - Managing summer interns for a short time

- Nov 2018– **Organizing Catalysts/Cloudflight Coding Contests**, *Open programming contest for university and high school students*, Wrocław, Poland.
The contest is used as a promotion and recruiting tool in Cloudflight/Catalysts. I have co-organized 3 events, with more than 70 people per event
- 2016–2017 **Web Administrator**, *Foundation for the Development of Wrocław University of Economy*, Wrocław, Poland.
Reformatting web page hosted on WordPress with additional js customization (HTML, CSS, JS)
<http://fundacja.ue.wroc.pl/>
- Sep 2015 **Internship**, *Parker Hannifin Manufacturing Poland*, Siechnice, Poland.
Lean & Production internship

Bachelor of Engineering thesis

- title Agile development of an application supporting the tube fittings manufacturing management
- description The subject of the thesis was creating a project and managing it using Scrum development framework and Unified Modeling Language. As a result of the project, an application supporting production management in Parker Hannifin Manufacturing Company in Siechnice was designed, implemented and installed.

Languages skills

- English Businesses fluent
- German Basic

Computer skills

- Advanced level Python (incl. pandas, numpy, django, matplotlib) Django, ML, NLP, Linux, Git
- Medium level PyTorch, Bash, Docker, Lua, C/C++, Ruby, PostgreSQL, LATEX, HTML + CSS + JavaScript, Bootstrap
- Basic level C#, Java, OCaml, Julia, Nim, Haskell, Prolog

Interests

- New / emerging technologies
- Ballroom dancing, running, hiking, skiing, sailing, travelling