

Paweł Pietrzak

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Education 2019 - 2023

Warsaw University of Science and Technology

- Faculty of Power and Aeronautical Engineering
- Aerospace Engineering (Aerospace Systems specialty)

Work history 2022.06 - 2024.01 QuickerSim - Junior Simulation Software Developer

- Front-end development (TypeScript, React)
- Back-end development (Django, Node.js)
- Physics engine development (mechanical and fluid computations) (MATLAB)
- Writing research project documentation (LaTeX)

2023.07 - 2023.10 Warsaw University of Science and Technology - Research Project Contractor

- Designing a system of coupled measurement devices, with Mobile&Web App (React Native)

2022.05 - 2022.06 Airbus Poland - Production Engineering Intern

- Writing assembly manuals (English) based on technical drawings, data from SAP systems and 3D models

Summer 2020 TeFeNICA 2020: Joint Institute for Nuclear Research, Dubna, Russia - International Intern Project topic: *Cosmic ray measurements in automation cycle using Python programming*

- Created an application that receives, archives and displays data transmitted by a handheld cosmic ray detector.
- Serial communication, data processing and visualisation, design and GUI implementation.
- Familiarization with issues related to the source, propagation and detection of cosmic radiation.
- Project presentation at the final seminar in English

Skills

Programming: Python, R, TypeScript (and JS), MATLAB, C.

Frameworks: Node.js, Django, React, React Native.

2D&3D CAD: AutoCAD, Creo Parametric, Siemens NX.

Languages: Polish (native), English (C1), Russian (A2).

Qualifications: driving license (B), electrical G1 qualification for voltages up to 1kV.

Projects 2021 - 2023

SAE AeroDesign Student Association

- Association management as a board member for 1 year.
- Unmanned plane construction for SAE AeroDesign competition (mechanics of flight calculations, workshop works, laminating).
- Writing and live presentation of a research paper about 5G C-Band impact on aviation.
- Co-writing the technical documentation for said competition, creating and delivering the presentation about our aircraft.
- SAE EAST 22 competition - technical documentation co-author (1st place), presentation co-author and speaker (1st place);
- SAE WEST 23 competition - presentation co-author and speaker (4th place);
- SAE EAST 23 competition - presentation co-author and speaker (4th place);

2022

Moonwalker

- Video game written in TypeScript simulating precision landing of a spacecraft.

2021

Hackathon NeuroHackaTor 2021

- Conceptual design of vitals monitoring device using EEG, research of current solutions and papers on similar topics, feasibility study, team organisation.

2020-2021

SKA Students' Space Association

- Thermal analysis of a balloon gondola in preparation for the Association participation in BEXUS scientific balloon experiment programme.

Courses 2023

2022

MATLAB Machine Learning (MLML)

2021

Advanced programming in R (text mining, sentiment analysis)

2021

MATLAB Fundamentals

2021

Introduction to programming in R

2021

Basic tailoring course

2016

Introduction to Computer Science and Programming Using Python