

Paweł Pietrzak

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Education 2019 - now

Warsaw University of Science and Technology

Faculty of Power and Aeronautical Engineering
Aerospace Engineering (VII semester)

Work history 2022.06 - now

QuickerSim

Front-end development (JS, React)
Physics engine development (MATLAB)

2022.05 - 2022.06 Airbus Poland Engineering Department

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 (remote)

Project topic: *Cosmic ray measurements in automation cycle using Python programming*

I created an application that receives, archives and visually presents data transmitted by a cosmic ray CosmicWatch detector.

Serial communication, data processing and visualisation, design and implementation of GUI.

I learnt about issues related to the source, propagation and detection of cosmic radiation.

I presented my project at the final seminar in English.

Skills

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

Programming: Python, R, JavaScript, TypeScript, React, MATLAB, C.

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

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

Projects 2021 -

SAE AeroDesign Student Association

Unmanned plane construction for SAE AeroDesign competition, mechanics of flight calculations, basic workshop works, laminating.

Co-writing the technical documentation for said competition, creating and delivering the presentation about our aircraft (2x first place).

Writing and live presentation of a research paper about 5G C-Band impact on aviation in the USA and abroad.

Association management as a board member.

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2022	Moonwalker	Video game written in TypeScript simulating precision landing of a spacecraft.
2021	Hackathon NeuroHackaTor 2021	Conceptual design of vital 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	2022	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

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