Profile Info

Experienced researcher and image processing Python / C++ OpenCV software developer with a demonstrated history of working as network and Linux servers administrator, who likes develop software from scratch to final product.

Skilled in Python C++, OpenCV and TCP/IP issues. Strong in network administration (Linux / Xen / Docker / LXD) with a Master of Science focused in Photonics engineering and PhD in Augmented Reality from Warsaw University of Technology.

Skills

Software development ▰▰▰▰▱
Design experiments ▰▰▰▰▱
Image processing ▰▰▰▰▱
Scrum ▰▰▰▱▱
Network admin. ▰▰▰▱▱
DevOps ▰▰▱▱▱

Languages

Polish ★★★★★
English (B2) ★★★☆☆

Interests

West Coast Swing dance

Climbing

DIY

IoT

Radosław Gierwiało, PhD

Software Developer & Researcher

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Employment

Senior Software Developer — since 01.2024
Samsung Poland R&D Center
> **Tech Stack:** C++ / WinAPI / WMI / Git / Visual Studio 2022

Senior Backend / Server Developer — 04.2023 - 11.2023
Scramjet sp. z o.o.
> Responsible for develop asynchronous TCP/IP connection multiplexing interface over HTTP between Python client and node.js STH server (Scramjet Transform Hub); Co-Developer of Proof-of-Concept of Raspberry Pico / Nucleo management via STH with usage of Zephyr RTOS.
> **Tech Stack:** *Python 3.10 / asyncio / pytest / TCP multiplexing / Embedded C / C++ / Zephyr RTOS / Raspberry Pico / Nucleo STM32 / Git*

Python Software Developer & System Engineer — 03.2020 - 03.2023
SmartTracking sp. z o. o.
> Responsible for camera and system calibration process. Focused on image acquisition, system-level hardware communication via TCP and system management workflow.
> **Tech Stack:** *Ubuntu / Python 3.8 / numpy / pytest / Git / Bitbucket Pipelines / FLIR cameras / Docker / ansible / bash / NFS / LDAP / 10Gbit network*

Researcher & C++ Software Developer — 11.2013 - 02.2020
OGX|Optographx - Warsaw Univ. of Technology Research Team
> Responsible for development of 3D measurements with structure light methods. Creator of first glasses-free augmented reality system in research team. Finished with PhD defence.
> **Tech Stack**: *C++11 / OpenGL / OpenCV / Mercurial / FLIR cameras / Visual Studio 2015*

Network administrator — 02.2013 - 02.2020
Faculty of Mechatronics, WUT
> Managing a core faculty network for 1500 end user devices (wired and wireless). Working on 30 managed switches, 10 bare-metal servers to virtualize all network services (LDAP, DNS, DHCP, Postfix etc.)
> **Tech stack**: *XEN / Ubuntu / HP Aruba / Cisco WLC / routing & NAT & 10Gbit network*

Education

Doctor of Philosophy - Augmented Reality — 09.2013 - 07.2020
Warsaw University of Technology
> PhD in Mechanical Engineering at Virtual RealityTechniques Division;
> Thesis: An augmented reality system to support the learning process for liver ablation procedure

Master of Science — 02.2012 - 09.2013
Warsaw University of Technology
> MSc in Photonics Engineering at Faculty of Mechatronics; Thesis: Implementation of software for processing and analysis of data from holographic microscope

Bachelor of Science in Engineering — 10.2008 - 02.2012
Warsaw University of Technology
> BScE in Photonics Engineering at Faculty of Mechatronics; Thesis: Review and implementation of threshold algorithms in OGX|Calculation 2D environment.