

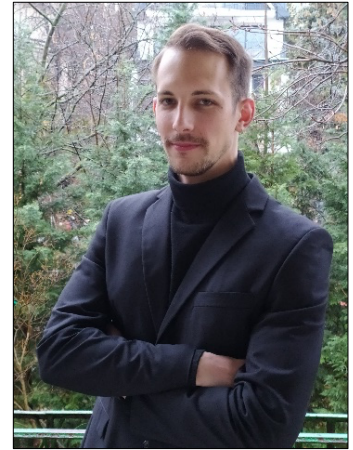
Gergely Pósfai

Software Engineer, Biomedical Engineer, PhD student

from Hungary  

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STUDIES

Obuda University, John von Neumann Faculty of Informatics,
Engineering Information Technology BSc

Specialty: IoT, Embedded systems and Robotics

Year of graduation: 2022

Technical University of Budapest, Faculty of Electrical Engineering and Informatics,
Biomedical engineer MSc

Year of graduation: 2025

Obuda University, Doctoral School of Applied Informatics and Applied Mathematics,
PhD in Modeling and Controlling Physiological Systems with Control Theory Methods

Year of enrolment: 2025

PROFESSIONAL EXPERIENCE

IT Intern – Prezi.com Kft.

IT equipment maintenance

2018 Oct – 2019 Jan

Demonstrator – Obuda University, NIK, Software Engineering Institute

Subjects: Databases (SQL), C# programming, Web development (Java EE)

2019 Jan – 2020 Oct

Software Engineering Intern – Robert Bosch Kft.

Product line development of service features for a radar system

Skills: C++ (embedded), Python (development tools), MATLAB (measurement analysis)

2021 July – 2022 Jun

Embedded Software Engineering Intern – Silicon Laboratories Hungary Kft.

Bluetooth Low Energy SDK development

Skills: C (embedded), Bluetooth Low Energy, SDK development

2023 Feb – 2023 Jun

R&D Associate – Obuda University, Physiological Controls Research Center

Modelling and simulating physiological systems, Preparing and conducting clinical data collections,
Consulting university students, Presenting research advancements on conferences

Research contribution in association with the National Research Center of Italy, CNR-IRIB, Palermo

2023 Dec –

PERSONAL SKILLS

Languages: English (C1), Hungarian (native)

Programming languages: Python, C/C++, C#, Java, (Julia, LabVIEW)

Other skills: Git, Bitbucket, Jira, Scrum, MATLAB & Simulink, SQL, LaTeX, MS Office

Driving License: category B

PUBLICATIONS

Laura D’Orsi, Gergely Pósfai, and Andrea De Gaetano. 2024. “A Model of the Maldistribution of Ventilation and Perfusion, in the Lungs of Heart Failure Patients.” ACTA POLYTECHNICA HUNGARICA 21 (9): 147–158. doi:10.12700/APH.21.9.2024.9.10.

Árpád Varga, Gergely Pósfai, Barbara Simon, Levente Kovács, and György Eigner. 2025. “Comprehensive Analysis of Convex Hull Manipulation in the Context of Identifiable Virtual Patient Model Control.” IFAC PAPERSONLINE 59 (2): 115–120. doi:10.1016/j.ifacol.2025.06.020.

Gergely Pósfai, Andrea De Gaetano, Levente Kovács and György Eigner. 2025. “Long-Term disease progression and incidence of complications in Type 2 Diabetes Mellitus” 2025 IEEE International Conference on Systems, Man, and Cybernetics (SMC). doi:10.1109/SMC58881.2025.11342991