CONTACTS

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eszter.bathory@protonmail.com

LinkedIn

LANGUAGES

ENGLISH -Professional ITALIAN - Advanced **HUNGARIAN** – native SPANISH - Beginner

SKILLS

Problem-solving,

Critical thinking,

Accuracy and Precision, both in a teamwork and independent work,

Time Management,

Reliability,

Diligent Working Time,

Version Control (SVN, git)

MATLAB,

C#,

Unity3D,

Python,

ML,

Time Series Database,

Arduino,

Data Science,

ESZTER BÁTHORY

ABOUT ME

Biomedical Engineering ____ /





Neuroscience, Brain Research 🧠 🕺 📆



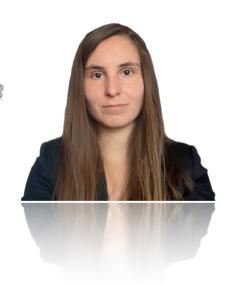
Programming, Scripting 🜉 🎮







Personal Website | Home projects



EDUCATION

Budapest University of Technology and Economics

BIOCHEMICAL ENGINEER, B.Sc. Healthcare specialisation Faculty of Chemical Technology and Biotechnology Sep 2015 - Jan 2019

BIOMEDICAL ENGINEER, M.Sc. with honours

Faculty of Electrical Engineering and Informatics Sep 2019 - Jun 2021

Programming Certificates: Unity3D, Python, Machine-Learning

LinkedIn certificates: TensorFlow - NNs, NLP, Images, Deep Learning, Arduino, **Business Analysis**

PROFESSIONAL EXPERIENCES

- Clario Clinical, Jun 2024 Sep 2024 Solution Design Analyst, eCOA - remote
- Femtonics Ltd. / BrainVisionCenter, Feb 2020 May 2024 Bioengineer - device, and software development, Jul 2023 - May 2024
- -Device and software development (Unity3D) on designing animal virtual environments for neuroscience research. Oversaw the device functionality, maintenance, and technical testing. Played a crucial role in optimising, creating protocols, and teaching the use of the devices.
- -Enhanced device functionality through testing, and communication with teammates from different backgrounds.
- -Real-time online feedback was developed for the GUI for more effective experiments and an augmented user experience.
- -Managed software-hardware integration for in vivo animal experiment tasks. Developed internal documentation (Sphinx - HTML) and provided training material to international clients.
- -Advertisement and demonstration.

Basic PLC,

HTML documentation,

Microscopy,

Use of laboratory equipments,

Mentoring,

Tutorial design,

Microsoft,

Thinking ahead,

Photo post-processing,

Sport Animator

Assessment Centers

- Linde, Pullach, Germany, 2024
- Telekom Deutsche, Hungary, 2025

-Insight into basic PLC programming, robotics, database queries, and GUI design.

Research Scientist in neuroscience - Initial role

- -Co-author of a Nature Methods paper.
- -Device specialist at international and national conferences.
- -Presented research on poster sessions at conferences (OPTOGEN, IBRO, FENS), contributing to ongoing neuroscience investigations.
- -Perform experiments and protocol designs for cortical signal processing studies, extended with data analysis.
- -Perform in vivo optogenetic manipulations, viral transfection with micropipette injections, mouse craniotomy surgeries, and active use of multiphoton microscopy (acoustic-optic 3D) in neurobiological research, and data analysis development.
- Gottsegen National Cardiovascular Center, Hospital, *Oct Dec 2021* Instrument Engineer
- -Project management, handle logistics, serve coordination, and technical documentation for medical equipment projects.
- -Liaising with medical device companies and distributors for acquisitions and contracts.
- OFESZ Molecular Diagnostic Laboratory, Jun Sep 2021 Laboratory Assistant (self-employment)
- -Conducted PCR diagnostics and handled samples for in-vitro diagnostics.
- -Operated blood analysers and chemical automation systems.

EARLY CAREER & VOLUNTEERING

- Hungarian Academy of Sciences, Research Center for Natural Sciences, Institute of Organic Chemistry, and Chemical Biology group,
 Volunteer Researcher, Sep 2017 – Dec 2018
- -Preparative work with DNA oligomers, and performed measurements with spectrophotometry, capillary electrophoresis. Data analysis and visualisation.
- Sanofi, Chinoin Zrt., Development project manager intern, Jun Sep 2019
- Department of Otorhinolaryngology, Head and Neck Surgery, Internship
- -Project with cochlear implantation, and hearing aid devices.
- -Observe implant operations, intraoperative measurements, facilitate the tuning of the signal processor for patients.
- Femtonics Ltd., Volunteer Junior Researcher during the first year.
- Participation in <u>Scientific Student Conference</u> Role of Vasoactive Intestinal Polypeptide Expressing Interneurons in Cortical Signal Processing (II. prize).