



CONTACTS

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[LinkedIn link](#)

LANGUAGES

ENGLISH – professional

ITALIAN – advanced

HUNGARIAN – native

SPANISH - beginner

SKILLS

Problem Solving,

Critical thinking,

Accuracy and precision, both
in team and alone,

Time Management,

Reliability,

Diligent work time,

Version control (SVN, git),

MATLAB,

C#,

Unity3D,

Python,

Timeseries Database,

Arduino,

Data Science,

Open personality to acquire
new competencies with cell
culture,

ESZTER BÁTHORY



ABOUT ME

Reliable professional with strong interests in medical engineering, and innovations. Known for critical thinking, problem solving, and a proactive approach to seeking new challenges and opportunities in technical fields.

[Personal Website](#)

EDUCATION

Budapest University of Technology and Economics

BIOCHEMICAL ENGINEER, B.Sc. Healthcare specialization

Faculty of Chemical Technology and Biotechnology

Sep 2015 – Jan 2019

BIOMEDICAL ENGINEER, M.Sc. with honors

Faculty of Electrical Engineering and Informatics

Sep 2019 – Jun 2021

PROFESSIONAL EXPERIENCES

- **Clario Clinical**, *Jun 2024 – Sep 2024*

Solution Design Analyst, eCOA - remote

-Designing charters for clinical trials in multicultural environments.

-Collaborating with clients and team members to ensure protocol compliance.

- **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 neuroscientific research. Oversaw the device functionality, maintenance, and technical testing. Played a crucial role in optimizing, 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.

Basic PLC knowledge,
 HTML documentations,
 Scripting,
 In vivo optogenetic
 manipulation in mice,
 Viral transfection,
 Multi-photon microscope
 user,
 Driving license,
 Efficient in multicultural
 environment,
 Mentoring



Assessment Centers:

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

LinkedIn certificates:

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

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

Research Scientist in neuroscience – *Initial role*

-Co-author of a Nature Methods paper.

[Article Link](#)

-Device specialist at international and national conferences.
 -Presented research on poster sessions at conferences (OPTOGEN, IBRO, FENS), contributing to ongoing neuroscientific 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

-Handled logistics, served coordination, and technical documentation for medical equipment projects.
 -Liaised 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 analyzers 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 visualization.

- **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 Scientific Student Conference – **Role of Vasoactive Intestinal Polypeptide Expressing Interneurons in Cortical Signal Processing** (II. prize).