ESZTER BÁTHORY

CONTACTS

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LANGUAGES

ENGLISH – professional
ITALIAN – advanced
HUNGARIAN – native
SPANISH - beginner

SKILLS

Problem Solving,

Critical thinking,

Accurate and precise working, both in team and alone,

Time Management,

Reliability,

Diligent work time,

Version control (SVN, git),

MATLAB,

C#,

Unity3D,

Python,

Timeseries Database,

Arduino,

Data Science,

ABOUT ME

My colleagues describe me as a reliable, critical-thinking and problem-solving person who is constantly looking for challenges and new opportunities in the technical field of medical engineering.

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, Jun 2024 – current

Solution Design Analyst, eCOA
- Charter design for clinical trials.

- Femtonics Ltd. / BrainVisionCenter, Feb 2020 – May 2024

Bioengineer - device, and software development, Jul 2023 – May 2024
Research Scientist in neuroscience (at the beginning)

Device and software development (Unity3D) on animal virtual environment for neuroscientific researches using in vivo animal model during behavioral tasks. Responsibility for device functionality and communication on the technical development. My tests on the device lead to improvements which were implemented into the developing design. I faced challenges on domains from biological compatibility to software design.

Side tasks:

- Advertisement and demonstration.
- Inside training.
- International customer contact.
- Testing features.
-Data analysis.
-Sphynx documentation (HTML) and proper tutorials for internal and external Users.

Basic PLC knowledge,

HTML documentations,

Scripting,

In vivo optogenetic manipulation in mice,

Viral transfection,

Multi-photon microscope user,

Driving license,

Efficient work in multicultural environment,

Mentoring

-Scientific discussions, co-author of Nature publication (under review).
Competition of cortical clusters during on-demand visual learning in immersive virtual reality | Research Square
-Device specialist at international and national conferences.
-Poster presentation at conferences (OPTOGEN, IBRO, FENS).
-Perform experiments and protocol designs for cortical signal processing investigations.
-Robot programming, time series database construct design, queries, GUI implementation.
-Performing in vivo viral transfections with micropipette injections, mouse craniotomy surgeries, optogenetic manipulations, active use of multiphoton microscopy (acousto-optic 3D), neurobiological research, and data analysis, and animal training.

- Gottsegen National Cardiovascular Center, Hospital, Oct 2021 – Dec 2021
Instrument Engineer
-Project engineering.
-Logistics, service, documentation, administration, acquisition, writing contracts, and keep contact with medical device companies and distributors.

- OFESZ Molecular Diagnostic Laboratory, Jun 2021 – Sep 2021
Laboratory Assistant (self-employment)
-In vitro human diagnostics, perform PCR runs, and sample handling.
-Use of blood analyzer and chemical automats.

EARLY CAREER & VOLUNTEERING

- Volunteer researcher at the Hungarian Academy of Sciences, Research Center for Natural Sciences, Institute of Organic Chemistry, and Chemical Biology group, Sep 2017 – Dec 2018
-Preparative work with DNA oligomers.
-Spectrophotometry, capillary electrophoresis and data analysis.
-FRET pair dye identification.

- Development project manager intern at Sanofi, Chinoin Zrt., Jun 2019 – Sep 2019

- Project in biocompatible materials, cochlear implantation, and hearing aid devices – intern project, half-year duration in a local hospital.
-visiting implant operations, intraoperative measurements, help tuning of the signal processor for patients.

- Volunteering as a junior researcher during my first year at Femtonics Ltd. as a scientific researcher.

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

Unity Junior Programmer
Unity Technologies

Unity Essentials Pathway
Unity Technologies