

NIMA MAJIDI

Bavaria, Erlangen ☎ +49-157 3933 5516 ✉ nima.majidi@yahoo.com 🌐 nimamajidi Date of Birth: 10.02.1997

EDUCATION

M.Sc. Communications and Multimedia Engineering - German Grade: 2.6 <i>Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)</i>	11.2020 – present <i>Erlangen, Germany</i>
B.Sc. Electrical Engineering - German Grade: 1.99 <i>Ferdowsi University of Mashhad</i>	09.2015 – 01.2020 <i>Mashhad, Iran</i>

Work Experience

* Siemens-Healthineers * DevOps and Administration	10.2023 – Present
<ul style="list-style-type: none">Virtualisation with Proxmox-VE and offline upgradingMaintenance of serverMaintenance of remote machinesPowershell scripting	
* Stabilo International GmbH * Full-time Internship	04.2023 – 09.2023
<ul style="list-style-type: none">Develop GitLab CI/CD pipelines for building and signing of Android and IOS projectsDevelopment of Docker containers and got familiar with Docker commands in terminalInstall GitLab Runner for the pipelinesDeploy artifacts to Maven Repository in Sonatype Nexus with gitlab pipelines (software supply chain management)Development and maintenance of Python and Bash scripts	
* Fraunhofer IIS * Research Assistant and DevOps engineer	10.2021 – 10.2023
<ul style="list-style-type: none">Development of GitLab CI/CD pipelines with .gitlab-ciWeb automation and testing with CI/CD pipelines, Web scraping with Selenium libraryDevelopment and modification of web-based listening tests with PHP and Java Scripts (Frontend/Backend)Designed a web page for LC3 deliveries data base with simple search engine (Frontend)Development of a Bluetooth Encoder with MatLabPython and HTML development by Amazon Mechanical TurkMaintenance of LC3 project (Low Complexity Communication Codec)	
* Friedrich-Alexander-Universität Erlangen-Nürnberg *	
Tutor of Introduction to Software Engineering	11.2023 - 02.2024
Research Assistant for Speech Enhancement and Noise Suppression	04.2021 – 02.2022
<ul style="list-style-type: none">Worked on the noise suppression field at FAU Erlangen-Nürnberg. Applied Deep Neural Networks specially RNN models using Tensor Flow on the noisy signals for increasing the SNR and SDR	
Student Laboratory Assistant of Statistical Signal Processing	10.2021 – 02.2022
<ul style="list-style-type: none">Prepared Jupyter notebooks materials and helped students for Python programming	
Tutor of Preparation Course Python Programming	10.2021 , 10.2022
<ul style="list-style-type: none">Guided new students of study program with Python learning	
* Ferdowsi University of Mashhad *	
Deep Learning Lecturer	10.2020 – 12.2020
<ul style="list-style-type: none">Taught Neural Networks architectures and its programming (Codes available at: https://github.com/nimamajidi1997)	
Teaching Assistant	09.2017 – 03.2019
<ul style="list-style-type: none">Designed some assignments and course projects for students and solved problems for them. Supported teachers by collecting and providing beneficial course materials and marking the exam papers taken by studentsCourses: Electric Circuits, Engineering Mathematics, Technical English	

TECHNICAL SKILLS

Programming Languages:

- **Python, Matlab** Highly Experienced
- **HTML, CSS, Java Script, PHP, Bash** Upper Intermediate
- **C++** Intermediate

Software:

- Matlab, Visual Studio Code, Pycharm, Jupyter notebook, Xcode, Android Studio, Pspice, Multisim, Altium Designer, Proteus, Codevision, Latex

Technologies/Frameworks: Linux, GitHub, GitLab, Bash, Microsoft Excel

University Projects

Generalized Sidelobe Canceller (GSC)

- **Adaptive beamforming** an alternative formulation of the linearly constrained minimum variance (LCMV) filter, final project of Statistical Signal Processing Lab.

B.Sc. Project

- Directly related to Information Theoretic Learning. Applied Minimum Error Entropy (MEE) instead of MSE traditional methods for **classification of breast cancer** cells in 2 classes, malignant and benign by the linear adaptive filter, using gradient descent algorithm.

Neural Networks

- Alphabet recognition by ADALINE / Hopfield Networks. Used Kohonen Self-Organizing Map for clustering and applied Multi-Layer Perceptron by Error Back Propagation algorithm for data compression and classification. Completely familiar with different architectures like Auto, Hetro and Bidirectional associative memory, Learning Vector Quantization (LVQ 2/2.1/3), Full and Forward-Only Counter Propagation Network, etc.

Deep Learning

- Implementing Lazy and non-lazy regimes in teacher-student setting on MNIST data set, cat and dog images classification, etc. Speech Enhancement with deep learning implemented by Keras, Tensor Flow. Completely familiar with **Convolutional Neural Networks**.

Fuzzy Logic

- Programming in fields of **fuzzy reasoning, fuzzy inference systems** and **defuzzification**




Brain functioning evaluation

- Analyzed the event-related potential signals (ERP) to evaluate the brain functioning by **Fast Fourier Transform** (FFT) in my bachelor studies

SOCIAL SKILLS

- Outstanding ability in team working, team leading and problem solving
- Experienced at presentation and public speaking
- Very good ability in adapting with new environments, and co-operation with new colleagues

CERTIFICATES

-  Neural Networks and Deep Learning
-  Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
-  Structuring Machine Learning Projects
- Primary/Advanced MatLab Certification from Technical and Vocational Training Organization: 208 Hours
- Printed Circuit Board from Ferdowsi University of Mashhad College
- Repairing and maintenance of clinic and hospital equipment Certification

LANGUAGES PROFICIENCY

- **English:** C1  **German:** A2 **Persian:** Native

HOBBIES

- Pilates, Playing Classical guitar (intermediate level), Running, Biking, Swimming

References

- **Tschekalinskij, Alexander:** alexander.tschekalinskij@iis.fraunhofer.de
- **Jens, Barth:** jens.barth@stabilo.com