

# NIMA MAJIDI

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## EDUCATION

**M.Sc. Communications and Multimedia Engineering - German Grade: 2.6** 11.2020 – present  
*Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)* Erlangen, Germany

**B.Sc. Electrical Engineering - German Grade: 1.99** 09.2015 – 01.2020  
*Ferdowsi University of Mashhad* Mashhad, Iran

## Work Experience

**\* Siemens-Healthineers \* DevOps and Administration** 10.2023 – Present

- Virtualisation with Proxmox-VE and offline upgrading
- Maintenance of server: backup, upgrade packages
- Maintenance of remote machines
- Powershell scripting

**\* Stabilo International GmbH \* Full-time Internship** 04.2023 – 09.2023

- Develop **GitLab CI/CD pipelines** for building and signing of **Android** and **IOS** projects
- Development of **Docker containers** and got familiar with **Docker commands** in terminal
- Install **GitLab Runner** for the pipelines
- Deploy 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

- Development of **GitLab CI/CD pipelines** with .gitlab-ci
- Web automation and testing with **CI/CD pipelines**, Web scraping with **Selenium** library
- Development 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 **MatLab**
- **Python** and **HTML** development by **Amazon Mechanical Turk**
- Maintenance 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

- 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

- Prepared Jupyter notebooks materials and helped students for **Python** programming

**Tutor of Preparation Course Python Programming** 10.2021 , 10.2022

- Guided new students of study program with **Python** learning

**\* Ferdowsi University of Mashhad \***

**Deep Learning Lecturer** 10.2020 – 12.2020

- Taught **Neural Networks** architectures and its programming  
(Codes available at: <https://github.com/nimamajidi1997>)

**Teaching Assistant** 09.2017 – 03.2019

- 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 students
- Courses: Electric Circuits, Engineering Mathematics, Technical English

## TECHNICAL SKILLS

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### 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, Server, GitHub, GitLab, Bash, Microsoft Excel

## University Projects

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### 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

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- 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

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-  PowerShell from Beginner To Sheller And Scripter
-  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

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

## HOBBIES

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

## References

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