

FIELDS OF KNOWLEDGE

Speech technologyMachine learningSignal processingData processingOptimization problemsIoT systemsSoftware development

EXPERIENCE

Machine learning engineer

Yoummday GmbHSep 2019 - TodayMunich, Germany

- Develop an emotions recognition system to monitor clients satisfaction.
- Maintain and accelerate the existing speech recognition system.
- Assure speed and efficiency using multi-processing architectures.
- Build monitoring tools for Windows operating system.

Python C++ Emotions recognition Voice verification Speech recognitionData augmentation Supervised learning Multi-processing Scalability

Software developer

Yoummday GmbHJun 2018 - Nov 2018Munich, Germany

- Develop a voice authentication system to detect fraudulent connections.
- Process & visualize large audio data and generate a training & testing database.

Python Speaker authentication/ Verification Unsupervised learning FfmpegMel Frequency Cepstral Coefficients Gaussian Mixture Models

INTERNSHIPS

Embedded security developer

blik GmbHAug 2017 - Nov 2017Munich, Germany

- Secure communications in a sensors network (TI cc2650 sensors & RPI broker)
- Implement symmetric encryption (AES-128) and hashing algorithms (SHA-256).

Embedded security Micro-controller IoT C TI cc2650 PythonRaspberry Pi Authenticated encryption Contiki OS Mbedtls Eclipse

GUI designer & developer

eCARus, Technical University of MunichAug 2014 - Oct 2014Munich, Germany

- Develop an informative android app & Translate the Typo3 webpages to English.
- Develop the Elektrotbit-app GUI with dual-language (EN / DE) feature.

Android java Elektrotbit Design tools Typo3 Foreign languages

ACTIVITIES AND LEADERSHIP

Mar 2020 - Today

- Founder & core developer** urlstechie Online
urlstechie is an online project providing urls checking tools. urlchecker-GitHub-action & urlchecker-Python-package (downloads > 17k)

Jan 2019 - Today

- Open source contributor** GitHub Online
Core developer of spafe (downloads > 28k).
Core developer of pydiogment (downloads > 9k).
Contributor to different projects such as: librosa, etc.

Oct 2016 - Aug 2017

- Mentor** MIX program, Technical University of Munich Munich
MIX Program = Mentoring for International Exchange Students.
Assist exchange students during their time at the TUM.

Oct 2013 - Jul 2014

- Treasurer** Tunesische Akademiker Gesellschaft, TAG e.V Munich

EDUCATION

M.Sc. in Electrical Engineering and Information Technology

B.Sc. in Electrical Engineering and Information Technology

Technical University of MunichSep 2013 - Jul 2019

- Master Thesis at Rohde & Schwarz: Antenna Array Diagnosis Using Phaseless Near-Field Data. 🏆 **Master thesis grade = 1.3**

Antenna testing data processing machine learning 5G

- Bachelor Thesis at TUM/LMT: Simulation Tool for WiFi Based Localization. 🏆 **Bachelor thesis grade = 1.0**

WiFi-based indoor localization Simulation Matlab

Deutsche Sprachprüfung für den Hochschulzugang (DSH)

Feststellungsprüfung (FSP)

Heidelberg UniversitySep 2012 - Jun 2013

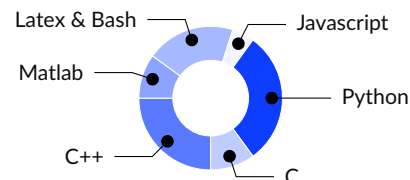
High School Graduation Diploma

Lycée pilote MonastirSep 2008 - Jun 2012

- Specialization Area: Technology (technical diploma),
- Grade = 1.3: 🏆 **Top 15 best Tunisian students in 2012 - government scholarship to study in Germany (with DAAD supervision)**

technical baccalaureate

PROGRAMMING LANGUAGES



Python: Top 15% on [Stackoverflow.com/superkogito](#)

C, C++BashMatlabJavascript

OPERATING SYSTEMS

LinuxWindows 7, 10

FRAMEWORKS



LANGUAGES

Arabic EnglishGerman French

REFERENCES

- Several are available upon request.