

AYOUB MALEK

Electrical engineering student & Software developer

Tunisian 25 years old Single No kids @ ayoub.malek@tum.de Munich, Germany github.com/SuperKogito

FIELDS OF KNOWLEDGE

Speech processing Speaker recognition Data processing Telecommunications Indoor localization IoT systems Signal processing Embedded security Machine learning Software development linux git logic analyzer shell scripting ...

EXPERIENCE

Software developer (working student)

Yoummday GmbH

June 2018 – November 2018 Munich, Germany

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

Speech processing Speaker authentication/ Verification Unsupervised learning Classification Data visualisation Python Sphinx-documentation

INTERSHIPS

Embedded security developer (research internship)

blik GmbH

August 2017 – November 2017 Munich, Germany

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

Embedded security Micro-controller IoT C TI cc2650 Python Raspberry Pi Authenticated encryption AES-128 SHA-256 Contiki OS MbedTLS Eclipse

GUI designer & developer (engineering internship)

eCARus, Technical University of Munich

August 2014 – October 2014 Munich, TUM

- Develop an informative android app & Translate the Typo3 eCARus webpages to english.
- Design & develop the GUI for the Elektrobit based app with dual-language (English / German) feature.

Android java Elektrobit Design tools Typo3 Foreign languages

ACTIVITIES AND LEADERSHIP

Mentor

MIX program, Technical University of Munich

October 2016 – August 2017 Munich, Germany

- MIX Program = Mentoring for International Exchange Students.
- Assist exchange students during their time at the TUM.
- Answer questions about the student life in Germany.
- Introduce them to the Münchner-Studentlifestyle.

Networking Cultural exchange Foreign languages practice

Treasurer

Tunesische Akademiker Gesellschaft, TAG e.V

Oct 2013 – July 2014 Munich, Germany

- Set-up events budgets, control expenses and seek new income resources.
- Collect the membership fees, prepare the Bills and assist other factions when needed.

Microsoft Excel Networking Financial reporting Budget control

EDUCATION

M.Sc. in Electrical Engineering and Information Technology

Technical University of Munich

March 2017 – ongoing

- 5th semester
- Master Thesis at Rohde & Schwarz: Data processing compressed sensing data processing machine learning

B.Sc. in Electrical Engineering and Information Technology

Technical University of Munich

September 2014 – March 2017

- Bachelor Thesis at TUM: Simulation Tool for WiFi Based Localization
- Bachelor thesis grade = 1.0

WiFi-based ndoor localization simulation matlab

Deutsche Sprachprüfung für den Hochschulzugang (DSH) & Feststellungspruefung (FSP)

Heidelberg University

September 2012 – June 2013

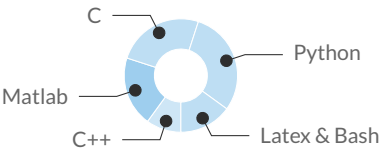
High School Graduation Diploma

Lycée pilote Monastir (Pioneer High-school in Monastir)

September 2008 – March 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)

PROGRAMMING LANGUAGES



Python

numpy pydub tkinter sklearn pandas matplotlib csv BeautifulSoup Sockets twisted hashlib Crypto regex ...

C, C++

Basys 3 BLE nano TI cc2650 MbedTLS AES SHA Eclipse Xilinx Vivado ... CHAI3D SDL Sockets TCP UDP Qt Box2D Visual studio Falcon Haptic Device ...

Matlab

computer vision indoor mapping signal processing ...

LANGUAGES

Arabic English German French

