

Izzat Al Brgli

Hans-Sommer-Str. 25, 38106 Braunschweig, Germany

☎ (+49) 178-233-0524 | ✉ izzat.brg@gmail.com | 💻 <https://www.linkedin.com/in/izzatbrg/>

Experience

EDAG Engineering GmbH

Wolfsburg, Germany

SOFTWARE ENGINEER

November 2021 - Present

- As a member of the vehicle state estimation team in an agile project, I research and develop algorithms for estimating desired vehicle states (longitudinal and transverse) for self-driving vehicles.
- Developing the required software test plans.
- Performing failure mode and effect analysis(FMEA).
- Transferred the architecture design into Enterprise Architect and drew the map of dependencies between the architecture and the requirements.
- Meeting, discussing and presenting the results to our clients
- **Technologies:** Simulink, Matlab, CI/CD, SystemWeaver, Enterprise Architect, EB corbos Studio, Adaptive AUTOSAR, xFMEA, GitLab, Jira, Confluence, SVN, Jenkins

Technische Universität Braunschweig

Braunschweig, Germany

WERKSTUDENT

Juni 2020 - Dezember 2020

- Developed a graphical user interface for controlling a measurement system.
- Built a motor control system.
- Created a graphical user interface for an internal database system.
- **Technologies:** Python, PyQt5, NANOJ, Raspberry pi, Git, UML

FlexNavi

Braunschweig, Germany

WERKSTUDENT

Oktober 2019 - Dezember 2019

- Assisted with the fabrication of electrical circuits and the hardware assembly process for new technology.
- Tested new products.
- **Technologies:** Arduino, KiCad

Education

Technische Universität Braunschweig

Braunschweig, Germany

MASTER OF SCIENCE IN MECHANICAL ENGINEERING FOCUSING ON MECHATRONICS, AUTOMATION AND AI

Apr 2018 - Jun 2021

Damascus University

Damascus, Syria

B.SC IN MECHANICAL ENGINEERING

Sep. 2009 - Dec 2015

Academic Projects

Master's thesis I implemented multiple algorithms from reinforcement learning using Python to control the automated cooperative intersection crossing of connected vehicles.

Technologies: Python, Pytorch, SUMO, Reinforcement Learning, UML, Matlab.

Studienarbeit This research focused on the investigation of the suitability of Convolutional Neural Networks (CNN) for forecasting sensor readings (Harvest volume in the harvesting machine warehouse).

Technologies: Python, Tensorflow, Keras, Deep Learning, CNN, Scikit-learn.

Programming "Zumo" robot by using Arduino and Simulink to track the directed light (final project for Multidisziplinäre Simulationen in der Adaptronik mit MATLAB/Simulink).

Technologies: Arduino, Simulink, Stateflow, 3D Printing, Ultrasonic sensors

Skills

Programming Python, MATLAB, Simulink, C++
Artificial Intelligence Reinforcement learning, Deep Learning, PyTorch, TensorFlow
Database SQL
Other technologies Git, AWS, PyQt5, REST-API, OpenCV, Raspberry pi, Arduino, Jira, Jenkins
Soft Skills Working in teams, Working solo, Agile
Languages Arabic (Native), English (Professional), Deutsch (Professional)
DRIVING LICENCE: B

MOOC

AWS Cloud Technical Essentials

OFFERED THROUGH COURSERA

Amazon

Issued Aug 2021

Databases and SQL for Data Science with Python

OFFERED THROUGH COURSERA

IBM

Issued Apr 2021