



Location: 91052 Erlangen, Germany ([Locate on Google Maps](#))

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Language: Arabic (Native), German (Sufficient, B1/B2),
English (Fluent, [IELTS](#)), Spanish (Basics, [OLS-Report](#))

Work Authorization: Eligible for full-time work in Germany.

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Oct 2022 - Today

Jun 2022 - Jul 2024

Apr 2022 - Sep 2022

Oct 2019 - Mar 2020

Programming Skills

Software Proficiency

Oct 2020 - Sept 2025:

Thesis title:

Example Courses:

Sept 2021 - Jan 2022:

Example Courses:

Sept 2013 - Jul 2019:

Thesis title:

Example Courses:

Employment

Digitization Specialist (Working Student), Siemens Healthineers, Germany

BI & Dashboarding: Built Qlik Sense dashboards for orders, sales & backlog tracking.

Data Engineering: SQL in Snowflake for ETL, joins, and views to streamline reporting.

Process Automation: Automated reports & alerts with Python and Power Automate.

Advanced Analytics: Supported ML forecasting, maintained weekly trend datasets.

Operations and IT Support (Volunteer), START Nürnberg, Germany

Boosted operations efficiency and managed technical infrastructure.

Outbound organizer (Working Student), Amazon, Germany

Controlled and reviewed the outbound process in a central warehouse

Teaching Assistant (Part-time), Mansoura University, Egypt

Supported the teaching and facilitated learning for two undergraduate courses

Technical Skills

Good: **Python, SQL, Matlab, C++, R.** & Basics: Scala, Micro C, Prolog.

Qlik, Snowflake, Databricks, Microsoft Office, JIRA, SolidWorks, Proteus, WordPress, LaTex, MeVisLab.

Education

M.Sc. in Health and Medical Data Analytics and Entrepreneurship (Diploma)

Technical Faculty, Friedrich-Alexander University Erlangen-Nürnberg, Germany.

Final Score: 2.1 (Good).

Allometric Modeling of Human REE with FDG-PET/CT, Grade: 1.0.

Medical Device Regulations (MDR), Pattern Recognition, Advanced C++ Programming, Human-Computer Interaction, Service Innovation, Innovation and Leadership.

Semester Abroad (Certificate & Transcript)

Universidad Politécnica de Madrid, Spain (Funded by: EIT-Health & [Erasmus+](#))

Big Data & Data Visualization, Data Processes, Complex Data In Health, Open Data And Knowledge Graphs, Intelligent Systems.

B.Sc. in Biomedical Engineering.

Faculty of Engineering, Mansoura University, Egypt.

Final Score in German System: 1.3 (91.61%, top 10%) .

([Diploma](#) & [Transcript](#) & [Syllabus](#)).

Low Cost Ultrasound Cavitation and Liposuction System, Grade in German System: 1.0.

Medical Imaging, Biometric and Medical Measuring Instruments, Anatomy, Physiology,

Numerical Analysis, Sensors Devices, Project Management, Marketing, Physics, Statistics, Electromagnetic Fields, Analog and Digital Signal Processing, Nanotechnology.

University Projects

WS 2025

Allometric Modeling of Human Resting Energy Expenditure Using FDG-PET/CT Imaging Master's Thesis: Expanded research on PET-CT data to extract insights into metabolic parameters and organ volumes. ([Python](#))

WS 2023

Characterizing the Specific REE in PET-CT Images: Initial research project applying statistical data analysis techniques and developing an allometric machine learning model to quantify resting energy expenditure. ([Report](#)) ([Python](#))

SS 2022

Tracking Olympiad: Trained to track moving targets using deep learning algorithms. ([Python](#))

WS 2022

NLP with Disaster Tweets: Classified a sample of Tweets using natural language processing algorithms and visualizations. ([Python](#))

WS 2020	Air Quality in Madrid: Prepared and visualized in a simple GUI an extensive dataset (2001–2018) on the different levels of polluted substances in the Madrid atmosphere. (R)
SS 2019	Prediction of Flight Delays: Applied machine learning algorithms to a big data problem to predict the flight delay given "Data Expo 2009: Airline on-time data". (Scala)
WS 2019	Automatic CPR Device: Acquired experience in mechanical design using Solidworks . Conducted research to select the best mechanical mechanism and analyzed specifications of safe forces to apply on the thoracic cavity. (Report)
SS 2018	Biomedical Image Segmentation Using a Histogram-Based Analysis: Gained experience in Matlab . Created new functions for Otsu and Global-threshold segmentation techniques and accurately segmented lungs from MRI DICOM image samples. (Report)

WS 2017	ECG Monitor by Arduino Shield: Used Proteus to design an accurate Electrocardiogram circuit, executed the Printed Circuit Board (PCB), and installed it on an Arduino for monitoring by any computer device.
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Internships and Training

16 th - 20 th Oct 2023:	EELISA Entrepreneurship School, Waischenfeld Collaborated with international teams to develop innovative business ideas, gaining expertise in business model generation, prototyping, storytelling, and pitching. (Certificate).
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1 st - 6 th Sept 2021:	Summer School on Learning from Health Data, Université Grenoble Alpes Accomplished 30 hours of training in data analysis, innovation, and entrepreneurship, focusing on advancing strategies for anticipating, diagnosing, and treating leukemia. (Certificate)
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1 st - 30 th May 2019:	Field Training in Hospital Environment, Mansoura University Hospital: Familiarized with the hospital planning Under the standards of the Egyptian Hospital Accreditation Program. -Inventory the installations and needs of operating rooms and intensive care units by the number, condition, brands, manufacturers' origins, and warranty.
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3 rd - 14 th Mar 2019:	Siemens Service Engineering Training: Trained in diagnosing software and hardware issues for MRI (e.g., Siemens Symphony) and CT (e.g., Perspective). Assisted with the installation of the Siemens Aera MRI. (Certificate)
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Jun 2017 - Mar 2018:	Internship of Medical Devices Maintenance, Medical Devices Maintenance Center: Trained to troubleshoot and Maintain a wide range of medical devices e.g.: Ultrasound scanners, Diathermy, ECG, Dental Units, Incubators, Sterilizing devices.
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1 st - 30 th Aug 2017:	Field Training in Hospital Environment, The Emergency Hospital of Mansoura: Familiarized with the hospital planning from the civil engineering point of view according to The Design standards for Egyptian hospitals and health facilities. -Concentrated on the role of engineering management of the hospital.
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1 st - 30 th Jul 2017:	Electronics and Embedded Systems Training by Jelecom: Targeted micro-controller architecture. -Applied a variety of mini-projects.
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Jun - Sept 2017:	Introduction to (Embedded System, Robotics, PID Control) Course, AI Academy: Gained Micro C experience through a variety of small projects using different micro-controllers e.g. PIC16F628A. -Designed a functional robotic arm using Solidworks . -Applied PID control on different examples using Matlab and Simulink .
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Awards & Honors

Sept 2021 - Jan 2022	EIT-Health & Erasmus+ study abroad scholarship.
Sept 2019 - Feb 2020	Teaching assistant job because of the undergraduate excellence.
Mar 2017 - Jul 2019:	Partial Scholarship for high academic performance for five semesters in a row.

Memberships

Today	START Erlangen-Nuremberg eV
Oct 2021 - Oct 2022:	Erasmus Student Network
Nov 2019 - Today:	Egyptian Engineers Syndicate