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Education

Cairo, Egypt	German University in Cairo (GUC)	2018-2023
<ul style="list-style-type: none">Bachelor's in Engineering Materials and Sciences (EMS), Mechatronics Department. Current GPA: 0.81 (German Standard GPA).Specialization Courses: Programming, Data Structures and Algorithms, Mechanics, Control Engineering, Strength of materials, Engineering Design, Thermodynamics, Fluid Mechanics, Digital Logic Design, Digital System Design, CAD Lab.		

Experience

- Junior Teaching Assistant (October, 2020 – January 2021).** JTA in the *Data Structures and Algorithms (CSEN 301)* course Labs.
- GUCBrain member.** A machine learning AWG in the GUC. Did several machine learning tasks. [LinkedIn Link](#)
- IEEE GUC SB Member (Software and Hardware (Junior and Senior) Committees).** Practiced Android Development, worked on Arduino, MATLAB, C and ROS tasks.
- Trainee at Robo-Tech EG (August, 2020).** Robot arm training.
- Trainee at International Turnkey Systems (ITS) (July - September, 2019).** Worked on a web application project based on ASP.Net MVC framework.
- Junior Teaching Assistant (February – May, 2020).** JTA in the *Introduction to computer programming (CSEN 202)* course Labs.

Additional Experience

- ACM ICPC GUC Community member.** Took pupil's and Specialist's plans.
- ECPC qualifications contest.** Participated in the GUC qualifications.
- Catalyst's Coding Contest, Google HashCode and Code Jam** Participant.
- Arab League** member.

Awards & Scholarships

- Partial Scholarship at the German University in Cairo.** Ranked 98th on Egypt's Thanawya Amma Mathematical Section.
- Ranked 5th on Engineering at the GUC.** 1st and 2nd semesters.
- Ranked 2nd on Mechatronics Engineering at the GUC.** 3rd semester.
- GUC Excellence Award.**

Languages and Technical Skills

- Java, Python, (OOP), Arduino, MATLAB, SOLIDWORKS, AutoCAD.
- Familiar with C, C++, C#, Assembly, ML (Currently Regression & Logistic Regression Algorithms), OpenCV, Android Studio, Manim (Mathematical Animations), Proteus, SQL, Web Applications using ASP.NET MVC Framework.

Interests

- **Machine Learning and Data Science.**
- **Robotics and Control.**
- **University Teaching.**
- **Research.**

Online Courses

- **Introduction to Data Science. (Coursera)**
- **Object Oriented Programming in Java (Udacity).**
- **Android Basics: User Interface (Udacity).**
- **Android Basics: User Input (Udacity).**

Projects

- **HearthStone:** Computer Programming Lab (CSEN 401) project. Programming a game based on the famous HearthStone through programming the gameplay itself and the GUI.
- **Six - Position Voting System.** (Digital Logic Design Course)
- **CSManim:** A personal project based on Manim (Mathematical Animation Library) to demonstrate data structures and algorithms concepts.
- **LZ Data Compression Using VHDL.** (Digital System Design Course)