Hazem Ahmed

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Education

Future University in Egypt, BS in Mechatronics Engineering.   Sept 2019 – July 2024
- **GPA**: 2.4/4.0 (Good)

University of Cincinnati in USA, BS in Mechatronics Engineering.   Sept 2019 – July 2024
- **GPA**: 2.4/4.0 (Good)
- Partnership with **Future University in Egypt**.

Egypt Integrated British School, Secondary Education.   Sept 2016 – June 2019
- **Grade**: 93.2% (Excellent)
- British System Secondary Education known as **IGCSE**, certified from **Cambridge University** in UK and **Pearson Edexcel** also from UK.

Experience

Intern Mechatronics Engineer, Tamayoz institute **–** Cairo, EG.   Aug 2022 – Sep 2022
- PLC control and ladder diagram design.
- Making and Programing of line follower robot.
- Reverse Engineering using **CMM** machine and 3D pointer scanner.
- Manufacturing of prototypes using 3D printer.
- Mechanical Designing using **NX** CAD software.
- Designing and Manufacturing of electrical circuits using **Proteus** software.

Intern Electromechanical Engineer, Egyptian Railway Service Company **ERMAS** – Cairo, EG.   Aug 2023 – Sep 2023
- Full maintenance of Train's Locomotives.

Physics Teacher Assistant, IGCSE – Cairo, EG.   Nov 2022 – June 2023
- Advanced Level Physics Teacher Assistant with teacher **Hussien Khaled** at **IGCSE**.

Projects

Human Following Robot, Future University in Egypt – Cairo, EG.
- Designing and programing of human following robot using ultrasonic sensor, infrared sensor, servo motor, motor drive and motors and programing all these components using Arduino by C++ programing language.

Robot Arm, Future University in Egypt – Cairo, EG.
- Designing and Programing of robot arm using servo motors and controlling its forward and inverse kinematics using joystick and numerical pad and programing it using Arduino by C++programing language.

Graduation Project, Future University in Egypt – Cairo, EG.   Oct 2023 – July 2024
- Design and Fabrication of small-scale wind turbine to charge an electric vehicle.
- Using Data Science and Machine Learning to optimize the output power and the design parameters of the wind turbine.

Languages

- Arabic | Native Language.
- English | Fluent.
- German (Deutsch) | Beginner.

Skills

- Leadership.
- Work under stress.
- Insistence.
- Patience.
- Thinking out of the box
- Fast Learning.
- C++ Programing Language.
- Python Programing Language.
- SolidWorks CAD software.
- AutoCAD software.
- Proteus software.
- PLC control.
- Microsoft Excel | 8 years of Experience.
- Microsoft Word | 8 years of Experience.
- Microsoft PowerPoint | 8 years of Experience.
- Data Science.
- Machine Learning.