

Yousef Ebrahim Elbehery

Mechatronics engineering Engineer

Phone number: +201115335458

Email: yousefelbeheryz@gmail.com

Location: Cairo, Egypt

Summary

Highly motivated mechatronics engineer. Talented leader offering top-notch abilities in program management. Successful at training and mentoring to promote a culture of collaboration and continuous improvement. Excellent technical competence and critical thinking skills. Well-rounded and organized with skill in managing multiple priorities.

Skills

-
- | | | | |
|----------------------|--------------------|------------------------|--------------------|
| • C/C++ | • AVR | • Java | • Python |
| • AI | • Machine learning | • Azure | • GANs |
| • ISTQB FL | • SolidWorks | • CNC Machining | • 3D printing |
| • Proteus | • Altium | • PCB Design | • PLC |
| • Project management | • Leadership | • Communication Skills | • Willing to learn |

Experience

Microsoft Machine Learning internship

Egyptian Ministry of Communications and Information Technology, Ismailia

Aug 2024 – Jan 2025

- | | |
|-----------------------------------|---|
| 1. Statistics and Linear Algebra. | • Azure AI Engineer Associate |
| 2. Data Science with Python | • MLOps Tools, MLflow, and Hugging Face |
| 3. Machine learning | • Basic Generative Adversarial Networks GANs |
| 4. Agile Development and Scrum | • Natural Language Processing with Attention Models |
| 5. Azure AI Fundamentals | • Prompt Engineering |

Mechatronics Engineering internship

BEDO (The Egyptian Company for Development Education Technologies), 6th October city
Aug 2023 – Sep 2023

- learned a lot about embedded systems software with C & C++ programming.
- Deal with Raspberry Pi kit and AVR kit.
- Deal with electronic boards containing diodes, transistors, capacitors, inductors, and resistors with AC & DC to make several circuits like RLC circuits and see the signal on an oscilloscope.
- Hydraulic training on several kits such as Emissive power, closed hydraulic systems with 2 pumps, and a kit to calculate the pressure and flow of the fluid to decide if this flow is laminar or turbulent.
- Air conditioning systems.

Java programming internship

ITI (Information Technology Institute), Ismailia
Jul 2023 – Aug 2023

1. Programming with Java language.
2. Use Object Oriented Programming to make several projects individually.
3. Dealing with Git and Git Hub.
4. Working with my team to design the graduation project which was a (drawing application).

Digital Fabrication internship

Fab Lab Egypt, Maadi City
Sep 2023 – Oct 2023

- Additive Manufacturing (3D printing) – Build objects layer by layer using various materials.
- Computer-Numerical Control (CNC) – Subtract materials from surfaces to create shapes.
- Learned how to use new programs such as LaserWork and Ultimaker Cura
- Worked as a Technical Specialist in Fab Lab Ismailia after internship.

Embedded Systems Diploma

Eng. Ahmed Abd Elghaffar, Online
April 2023 – Present

- | | | |
|------------------|-----------------------|-----------|
| • Embedded C | • AVR Interface (PIC) | • ARM |
| • Data Structure | • RTOS | • AUTOSAR |
| • Algorithms | • ISTQB FL | |

Car Engineer Training

Abu Gamra Car maintenance center, El Mahalla El Kubra
Jun 2022 – Sep 2022

- learned a lot about cars and their maintenance in the fields of mechanics, electricity, and fault detection using different devices.
- Demonstrated a high level of initiative and creativity while tackling difficult tasks.
- Proven ability to learn quickly and adapt to new situations.

Chairman

Eccatronics Team, Ismailia

Oct 2022 – Present

- Assisted in the recruitment of new team members, hiring the highest qualified to get high performance.
- Established 3 new committees in the team "Communications – AI – Classic Control".
- Organized a competition (RoboSoccer) version 1 & version 2.
- Participated in many competitions such as the Air Defense College competition, the Innovation Catalyst competition, Robot Sumo competition at the Egyptian Russian University, and another Robot Sumo in IEEE HTI..

Technical Team Member

IEEE Suez Canal University student branch, Ismailia

Oct 2022 – Present

- Responsible for the mechanical part of the robot in terms of design, protection, selection of motor types and determining their speed to participate in Metal Monster competition.
- Configured and tested new software and hardware.

Technical Team Member

SCU Racing Team, Ismailia

Nov 2022 – Present

- A member of the brake team for the Racing team's car to participate in the Ever Competition.
- Worked on SolidWorks and MATLAB
- Helped in implementing and developing brakes.

Education

Master of Science (Mechatronics Technology)

Egyptian Chinese College, Suez Canal University

Sep 2024 – Present

Bachelor of Mechatronics Technology

Egyptian Chinese College, Suez Canal University

Sep 2020 – Jun2024

- Grade average Very good with honors
- Graduation Project Excellent

Mechatronics Engineering Diploma

Beijing Institute of Technology, China

Sep 2020 – Jun 2023