

# OMAR ABDELAZIM

## CONTACT

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## EDUCATION:

**2021– Present: Misr international University (MIU),**  
Artificial intelligence, Cairo, Egypt.

**Graduated from:** Nefertari national schools (NIS), Cairo, Egypt- where I graduated from General secondary education (Thanaweya Amma)

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## RELEVANT COURSE PROJECTS:

- ☐ Seats System Using Object oriented (java)
- ☐ Frontend & backend e-commerce system
- ☐ SRS & SDD documentation
- ☐ Research paper using overleaf
- ☐ Machine learning Bitcoin prediction using python
- ☐ Machine learning prediction best model using python
- ☐ Network project using Cisco packet tracer
- ☐ Smart Plant monitoring System
- ☐ Sonocardia Mobile Application (Flutter)

## Graduation Project: Sonocardia – Smart Heart Monitoring System

*Final Year Project | [MIU], 2025*

- Developed a real-time heart monitoring system using the **AD8232 ECG sensor** and **ESP microcontroller**, enabling wireless ECG signal transmission.
- Designed and implemented **serial communication protocols** for accurate and stable data capture and transmission.
- Built a **mobile dashboard** (or specify if applicable) to visualize ECG data live and store patient records.
- Processed raw ECG signals and integrated **machine learning models** to detect arrhythmias and assess potential risk of heart failure.
- Utilized the **PTB Diagnostic ECG Database** for training and validating models with real patient data.

- Focused on **early detection, portability,** and **affordable healthcare solutions** for cardiac monitoring.

## EXPERIENCE:

**Intern – Atomic Energy Authority (هيئة الطاقة الذرية)**  
*Cairo, Egypt | [Month Year] – [Month Year]*

- Gained hands-on experience in **nuclear science applications**, including safety protocols, radiation detection, and energy systems.
- Assisted in **laboratory research** and learned about instrumentation used in radiation measurement and control.
- Participated in seminars and training sessions focused on **nuclear technology, radioactive materials handling,** and **national energy strategy.**
- Observed and supported operations in regulated environments, reinforcing knowledge of **health physics** and **scientific documentation.**

## Soft skills

- ☐ Team Player
- ☐ Flexibility to perform various tasks
- ☐ Ability to apply knowledge to real life situation

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## COMPUTER SKILLS

- ☐ Microsoft office package (Word, Excel, and PowerPoint)
  - ☐ JAVA
  - ☐ C++
  - ☐ Python
  - ☐ Html, Css, js, php
  - ☐ Flutter
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## REFERENCES

**[Available upon request]**