Amr Mostafa Abbas

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📍 Giza – Egypt

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PROFESSIONAL SUMMARY

Electrical Power Engineer
- Automatic control
- Power electronics
- Embedded systems **ARM-based**
- Generation - Cable Sizing
- Earthing and Lightning Protection
- Automation systems

AI - Machine Learning

Software developer
- Flutter (Android, IOS, Web)
- C# (Desktop, ASP.net)
- Node-JS (Servers & APIs)
- Python (AI - ML)
- HTML, CSS, JS

SKILLS

- MATLAB
- Tia Portal
- AutoCAD
- SolidWorks
- ETAP
- EKTS
- Atmel Studio

- Vijeo Designer
- Visual Studio
- PVsyst
- LTSpice
- Proteus
- Inventor
- Ecostruxure Programs

INTERESTS

- Imam of a Mosque; Quran reciter; football; Reading

EXPERIENCE

SOUTH CAIRO ELECTRICITY DISTRIBUTION CO. Sep 2020 - Oct 2020
Training (Excellent grade)
- (Classic Control, PLC, HMI, Scada), Transformers, Protection system design, Important power component specifications.

EGYPTIAN SUGAR & INTEGRATED INDUSTRIES CO. Aug 2020 - Sep 2020
Training (Excellent grade)
- Machines, 3 phase induction machines, Machines controlling techniques, Machines protection system, Maintenance & Troubleshooting

FLUTTER PROGRAMMER (ANDROID, IOS). Mar 2018 - Current
freelancer
- Made more than 10 real paid application for international customers form **Egypt**, **Turkey**, **United Arab Emirates, Saudi Arabia** and **France**.
- Developed a Package for **GOOGLE pub.dev (Popularity 40%)** https://pub.dev/packages/am_state

DESKTOP APPLICATION PROGRAMMER C#. May 2015 - Current
Freelancer -- Made more than 20 apps

DEVELOPED Python Library and Node-RED Nodes. May 2022
am-red-channel   &   node-red-am_red-nodes
These Libraries used to make a connection between node-RED and Python to send and receive data between them.
*e.g. to connect **Raspberry (Python)** with **PLC** (through **Node-RED**)*

GRADUATION PROJECT: Intelligent Manufacturing Using industry 4.0
*sponsored by **Schneider Electric** and **Egypt AI & IOT challenge***
- Filling and Rejection System
- Project Quality control system
- Packing System
- Monitoring with **HMI** and **Scada**
- AI for **Image processing**
- Monitoring with **Mobile App**
- Programmed A **Public server** for remote monitoring (**Node-JS**)

DEVELOPED SIMULATION: Self_Driving_Car (Machine Learning). July 2022
No Libraries used, just all from scratch
https://github.com/AmrMAM/Self_Driving_Car.git

EDUCATION

CAIRO UNIVERSITY - FACULTY OF ENGINEERING
Electrical power and Machines. 2017 - 2022, [very-good grade]

UNIVERSITY OF COLORADO - INTRODUCTION TO POWER ELECTRONICS
2020 [Excellent grade], coursera.org/verify/93UYL3CTWU94

UNIVERSITY OF CALIFORNIA - THE ARDUINO PLATFORM AND C-PROGRAMMING
2020 [Excellent grade], coursera.org/verify/TCGTGJ7GFY7L