YOUSSEF EMAD HASSAN

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Work Experience

Orange digital center (ODC) Internship   Orange
                                                                    Cairo[Sep 2024 - oct 2024]

Frontend :

- Designed responsive UI using Angular components, CSS, and TypeScript.
- Integrated CRUD operations to enable dynamic user interactions.

Backend :

- Developed RESTful APIs with Express and Node.js.
- Managed data storage in MongoDB and implemented middleware for secure routing and authentication.

Electrical Engineer   EMG (Egyptian engineers for marble and granite)
                                                                    Egypt [Feb 2023]

- Troubleshooting and Maintenance: Diagnose and resolve issues related to PLC hardware, and software for 15 heavy machines
- PLC programming (Siemens, Panasonic, Omron, Mitsubishi, Xinje)
- Develop, program, and configure PLCs, HMIs, and SCADA systems to ensure efficient automation solutions.
- Technical documentation (Shop drawing, power distribution, electrical measurement)

Robot programmer   Óbuda University
                                                            Budapest [June 2021 - Sep 2021]

- Programming SCARA robots
- Checking the electrical parts and sensors of the robotics workshop
- Using robot controller parts such as RCX142

Projects

- MEAN Stack Web Application   Egypt **[sept 2024]**

Developed a full-stack web application using MongoDB, Express, Angular, and Node.js. Built a dynamic front-end with Angular for an interactive user experience and implemented a RESTful API with Express and Node.js for efficient data handling. Utilized MongoDB for optimized data storage and retrieval, focusing on performance and scalability. Prioritized secure, scalable development practices.

Skills: Full-stack Development, RESTful APIs, Angular, Node.js, Express.js, MongoDB, Web Security, Performance Optimization

-RICE CAKE Program   Egypt **[Jan 2024]**

Programmed a rice cake machine PLC (PANASONIC FP-X C40T) on FPWIN GR7S in logic ladder language ,used comparators,special functions and internal relays

-Soda Mixer program   Egypt **[June 2023]**

Programmed a soda machine mixer on (Siemens PLC s7-1200) ON TIA PORTAL 16 in logic ladder language. , used counters ,timers , memories and special functions

- Risk Assessment Using Statistical Method   Óbuda **UNIVERSITY [2021-2022]**

The bachelor's degree thesis focused on the risk assessment on a marble and granite factory using goodness of fit, T-test, and linear regression test. Applied on Excel.

Language Skills

Arabic - Native   English -C1   German-A1   Hungarian-A1

Technical skills

- Advanced Microsoft Office (Word, power point and Excel)
- Mechanical design software (Fusion 360, Inventor, Catia, Solidworks)
- Electronic and Electrical design: E-plan, Fritzing, Proteus, LabView
- Good knowledge of microcontrollers (Arduino IDE, Raspberry pi, nodemcu)
- PLC Software: Zelio, FPWIN and TIA Portal (Siemens PLC s7-1200/1500)
- HMI/SCADA applications: WinCC
- OOP,Design Pattern
- Database SQL(MySQL)
- Database NOSQL(MongoDB)
- Node.js
- Express.js
- Git
- Postman

Education

Mechatronics Engineering BSc   Óbuda UNIVERSITY [Sep 2018 – Feb 2023]
Industrial Robot Systems Specialization
Studies combine aspects of Mechanical, Electrical, and computer engineering.

Courses
1-classic control (power and control)
2-PLC advanced (Siemens,ZELIO)
3-HMI(Siemens)
4-VFD drivers (programming and connections)
5-SCADA (Wincc)
6-Automotive
7-Hydraulic
8-ILETS (B2)
9-Python
10-HTML5,CSS3,JavaScript,Typescript,Bootstrap,React.js,vite
11-Angular
12-express
13-Database
14-Version Control
15-Django Web Framework