Yousef Mohamed Moro

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Education and long-term commitments

Military service (finished).   (Dec 2020- Mar2022)
Bachelor |Electrical Engineering-Ain Shams University.   (Aug 2015 – Sep 2020)

.A remotely controlled car project: easy driving, line follower, obstacle detection: Embedded Car

.The Graduation project was on designing a microcontroller(pic16f877a) based AC chopper used to set a different firing angles using thyristors and with different voltage threshold ranges to keep the R.M.S values in certain levels by which we could control the amount of voltage applied, consequently this will could be used in applications as lighting systems and tap changers of a transformer and I got A+, Graduation Project.

Experience

. Software development intern | Knowledge Net.   (Dec 2023- now)

-Java fundamentals course at simplilearn channel with 9 small projects [13 hours] Java Projects
-HTML&CSS fundamentals and successfully made a couple of websites: HTML&CSS projects
-Successfully studied (implemented 14 projects some to be good and other to consolidate the knowledge such as ATM machine project)throughout this period) OCA,OCP and OOP concepts as buildingblocks,operators,coreAPIs,methods,encapsulation,Exceptions,Assertions,advanced class design, design patterns(singleton ,unique singleton class Builder and class Factory),collections-functional Programming and concurrency, find 7 OCP projects (inside Repos) here: Yousef's GitHub.
-Finished the W3school specialization in SQL and its queries to make use of it in building and manipulating DBs at MySQL such as(select-functions-alliance-grouping).
-Got familiar with the spring boot framework(nearly 13 hours specialization on UDEMY).
-Successfully made a tool that contains RESTful-APIs for KN that upon request parse files from any type and extract data models and insert them into DB (periodically) using java, springJpa, springBach, postman and thus our Data Analysis team embed their code to generate Analysis files for our company.

-designed, implemented, validated and deployed a tool/Web feature (using Restful APIs) that generates an E-Book containing analysis for our clients out of some files through extracting data models then auto-generate this analysis performance guaranteed via (Threads-SOLID principles).

Automotive Embedded systems trainee alumni | NTI.   (Juli2023-Aug2023)

studied C programming, embedded c, computer architecture, Data structures, stack, queue and linked lists with hands on experience through multiple projects, coded AVR Atmega32 MCU (fares PCBkit) drivers such as DIO,7segments and ADC peripherals. Tasks done PDF link: NTI tasks

. R&D & software QA engineer | Elsewedy Transformers   (Mar 2022- Juli2023)

. submitted two research reports solving the no-load losses and sound pressure manufacturing problem and participated at the ECOTAP OLTC studies and submitted 200+full technical offers.

. I was responsible for maintaining the design software and assuring its functionality and my concern and part was always to check the technical parameters such as the core ratios, winding at LV and HV, insulation used and the rest of technical parameters used.

. Attended 12 workshops (each of 16 hours) submitted by big entities such as Eslsca University.

. Technical trainer/mentor of interns at the summer program of ElsewedyTransformers.

PORTOFOLIO:

GitHub: youssefmoro (Yousef Moro) · GitHub.

-100+ C programming projects at the following topics: conditions-loops-bitwise operations-pointers-functions-call by reference-arrays (including 2D)-strings-dynamic allocation-sorting-pointer to pointers-preprocessor directives-data structures and data bases-enum-stack and queue-linked lists and interfacing using ATmega32 (all layers MCAL, HAL and services drivers with projects as **Converter to HEX & Binary** using LCD ,**Stopwatch** ,**firefighting system, showroom using RGB, driving motor angles using keypad, potentiometer sensors, Smart Home**).find all drivers and source files here **Embedded Portfolio**.

-30+ Java(OOP) PROJECTS Find all projects here: Yousef's GitHub
- **RECOMMENDATION LETTERS, Technical courses Certificates, Management courses Certificates**.

Skills

Computer Skills

- C, C++ programming (code blocks, VS code, Microshipstudio and even from text editor).
- Java -OOP programming(Intelj)-SQL-Queries.
- VCS (Gihub-Gitlab).
- Spring boot framework(Jpa-AOP-MVC).
- Proteus simulation, Familiar with MATLAB.
- Microsoft Office,JIRA,Git,Postman,Debeaver.

Language Skills

- Arabic [Mother Tongue].
- English [Fluent-former teacher].
- German [A zwei-DW certified] [B eins am werk] test result

COURSES

- o Introduction to functional safety ISO26262 Certificate.   (Dec 2023- Dec2023)
- o **RTOS** (**KERNEL**, tasks cycle, **scheduler** and algos as **priority based**, **Round Robin, FIFO, FreeRTOS**, intertask event synchronization and communication using **Queues** and **mailboxes**, **semaphores**, **race conditions**)"13hours".   (Nov 2023- Dec2023)
- o Embedded systems diploma C, embedded C, algorithms, data structures, computer architecture, HAL layer used (**7segments**, **Keypad, stepper and DC motors**, **LCD** and sensors as **ultrasonic**, **potentiometer**, **tempLM035** and pressure sensor)
  MCAL peripherals (on Atmega32) such as **DIO**, **ADC**, **interrupt**, **timers**, **USART**, **SPI**, **I2C**, **EEPROM** and **Watchdog Timer**, other communication protocols were studied such as **CAN** (VECTOR website) and **LIN**, **Software engineering and state machines (white box and black box),** KIT used ETA32mini (nearly 200hours).   (June. 2023- Dec2023)
- o PIC 16f877a interfacing and drivers "20hours".   (June. 2023- Aug.2023)
- o Master C & Embedded C at **Udemy** "30 hours" Certificate.   (Jan. 2023- jun.2023)
- o Motor drives and Sensors at HA Consulting Group "16 hours".   (Mar. 2020- Apr.2020)
- o PLC at **HA Consulting Group** "35 hours".   (Feb. 2020- Mar. 2020)
- o Classic control at **HA Consultancy Group** "40 hours ".   (Jan. 2020- Feb. 2020)

EXTRACURRICULAR ACTIVITIES

- Business Development Specialist at **MECA**.   (Sep. 2019 –Sep2020)
- Marketing Executive at **ACES**.   (Aug. 2018 – May. 2019)