Dr. Eng. Mohammed Molhem
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I have extensive academic and technical experience obtained as a result of hard work in many international companies and universities from several countries (Syria, Germany, Hungary, and Iraq).

A- EDUCATION

- Bachelor's degree in Electronic Engineering/ Damascus University.
- Master's degree in Computer Engineering / Tishreen University
- PhD in Computer Engineering / Damascus University.

B- ACADEMIC EXPERIENCE (Ten Years till Now)

- **Syria: Tartous University**. (**ICTE**) Faculty of Informatics Technology and Communications Engineering,
  - Quality Assurance Manager for 2021
  - Supervision of many graduation projects
  - Supervision many master's projects
  - Arbitration Committee member of Master
  - Teach the following subjects:
    1. Advanced Modeling,
    2. Embedded Systems,
    3. Data Acquisition Systems,
    4. Fault Tolerance Systems,
    5. Reliability of Computer System,
    6. Fuzzy Logic,
    7. programming languages (C++, Python),
    8. Parallel Programming.
    9. Computer Organisation and Architecture,
    10. Electronic circuits,
    11. Automatic Control systems.
    12. Multimedia Systems
    13. Electrical and Electronic Measurements
    14. Neural Networks
    15. Algorithms and Data Structures
    16. Microprocessors
    17. Advanced computer systems/ Master
    18. Advanced Embedded Systems/ Master

19. Industrial Networks/ Master
- **Iraq: Al-Ayen University. Technical Engineering Collage**
  - Supervision of many graduations projects
  - Teach the following subjects:
    1. Digital Signal Processing
    2. Measurement and Instrument
    3. Electronic
- **Syria: Al Baath University**. Faculty of Mechanical and Electrical Engineering
  - Arbitration Committee member of Master
  - Arbitration Committee member of PhD
  - Teach the following subjects
    1. Operating systems
    2. Algorithms and Data Structures
    3. Electronic Control Systems.

- **Syria: Al-Hawash Private University**. Faculty of Informatics Engineering.
  - Teach the following subjects
    1. Bioinformatics
    2. Information Security
    3. Information systems Engineering
    4. Operating systems
    5. Multimedia Systems
    6. Modeling and simulation.
    7. Parallel Programming
    8. Computer Organization and Architecture,
    9. Computer Graphics
    10. Supervision of many graduation projects

- **Syria: AL-Rasheed Private University**/ Faculty of Informatics Engineering
  - Teach the following subjects
    1. Distributed Operating systems
    2. Computer Graphics
    3. Advanced programming (Python)
    4. Operating systems
    5. Information systems Engineering

- **Research & Conferences**
  1. A novel Adaptive Sampling Algorithm for Cyber-Physical Systems/International Review of Applied Sciences and Engineering (IRASE) "AK Journal", 2023.
  2. The first conference Informatics Engendering / Damascus University 2022.
  3. Treating chatter in sliding control systems using artificial intelligence/ Tartous University Journal for studies and scientific research, 2022.
  4. Classification of chest X-ray images using deep learning/ Damascus University Journal for studies and scientific research, 2022.

5. Designing an algorithm based on convolutional neural network (CNN) to detect the existence of cancerous masses in X-ray images/ Tartous University Journal for Studies and Scientific Research, 2022.
6. The third conference for graduate students in the Journal of Engineering Sciences, Tishreen University 2021
7. Improving the performance of floating solar panels by using neural networks and studying the factors affecting them / Tartous University Journal for Studies and Scientific Research, 2021.
8. Analytical study of power quality disturbances in a local electrical distribution network / Tartous University Journal for studies and scientific research, 2021.
9. The second conference for graduate students in the Journal of Engineering Sciences, Tishreen University 2020
10. Using of Linear Temporal Logic in Cyber Physical Systems Specification (e.g. Automatic Transmission System)/ Tartous University Journal for studies and scientific research, 2021
11. Using of general purpose processor in cyber physical systems through spm memory/ Tartous University Journal for studies and scientific research, 2019.
12. Heterogeneous Modeling for ABS Using Markov Chains / Tishreen University Journal for studies and scientific research, 2015.
13. A Co-design Approach for Discrete-Time Embedded Systems Using Mathematical Modeling/ Damascus University Journal for studies and scientific research, 2015.
14. Building a Co-design Model for Continuous Embedded Systems Abstract/ Tishreen University Journal for studies and scientific research, 2014.
15. The Use of Supervisory Control And Data Acquisition (SCADA) System in Management of a Diesel Generator)/ Tishreen University Journal for studies and scientific research, 2008.

C- TECHNICAL EXPERIENCE (More Than Ten Years)

- **Trainings:** I followed the following training courses
  - **Syria**: MHI Company/ Control and instrumentation (C&I) carried out by "MHI Company"
  - **Hungary**: GEA Energy Technology Division/ PLC, SCADA , carried out by "GEA-EGI Company"
  - **Germany**: DURAG GROUP companies/ Gas Analyzing Instruments carried out by "DURAG-HEGWIN-ORFEUS-ENOTEC Companies".
- **Al zara Electric power station**
  - Supervisory of control and instrumentation (C&I). Signal transmitters, Flow Accumulator, Temperature sensors, Most kind off sensors, Analysis system, Switches, Pneumatic drivers, Valves, Intelligent Positioner, PID controller, Indicators…

  Control systems:
  - DCS: Distribute Control System.
  - SCADA: Supervisory Control And Data Acquisition
  - PLC: Programmable Logic Controller

D- SKILLS
  - Microsoft Word \Excel \power point program skills .
  - Programming languages: Java, C++ and Python.

- Assembly programming language skills.
- OrCAD release 9 / Proteus 6 professional program skills .
- VHDL programming language skills.
- CITECT/HMI SCADA software skills.
- XILINX ISE 9.1i(programmable logic circuits) software skills
- Modeling skills (Modeling tools like Pteolemy II ,Coloured petri Nets, and FSM)
- MMS(maintenance management system) program skills.
- MatLab.

E- LANGUAGES

- Arabic: Native language.
- English: very good in reading, writing, listening and speaking (I have been studying English in school, in university and tell now).
- French: reading, listening.

F- PERSONAL INFORMATION

Full name: Mohammed Molhem.
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Date of Birth: 15/08/1973.
Nationality: Syrian.
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