

# Hayl Saeed Hayder Al-Khadhami

## Industrial Automation and Management Engineer

### Qualifications:

- **Master's Degree** in Industrial Engineering and Management (Automation Discipline), Dawood University of Engineering and Technology, Karachi, Pakistan 2023 (Excellent grade).
- **Bachelor's Degree** in Computer Engineering, Faculty of Computer Science and Engineering, Hodeida University 2013 (very good grade).
- **English language diploma** for one-year (writing, reading, spoken, listening) 2009 with a score of 83.50%.
- **High school** – scientific 2008(very good grade).

### Experiences:

#### Teaching Experience

- Conducted tutorial and laboratory sessions for various courses including image processing, C++, C#, assembly languages, analog and digital electronics, A+ hardware, network+, digital design, computer system engineering, computer architecture, Android application development, and embedded systems (PIC-AVR).

#### Working Experience

- **Automation Engineer** at Yemen Dairy and Food Products Company for 5 years (2014-2018).
- **Electricity Control Technician** at Yemen Dairy and Food Products Company for 2 years (2012-2013).
- **Boilers & Air Compressors Operator** at Yemen Dairy and Food Products Company for 2 years (2009-2011).
- **Automation & Electrician Engineer** at UMC0 Pharmaceutical CO.LTD for 5 months May-Oct 2019.
- **IT Teacher** at the Education and Applied Science College of Raimah, Hodeida University for 5 years (2014-2019).

#### Academic experience

- I worked as an IT teacher in the Education and Applied Science College of Raimah, Hodeida University for 5 years since 2014 up to 2019.
- Research experience gained by studied research methodologies course in 1st semester and submitted a lot of research and literature reviews assignments during master and currently, also I have the following papers:
  1. published paper titled "[Efficient Detection and Recognition of Traffic Lights for Autonomous Vehicles Using CNN](#)" as a co-author.
  2. Under review "A survey of advancements in Graph Neural Network integration in recommender systems" as a co-author.

### Research interests:

- Artificial Intelligence.
- Vision-based deep learning techniques.
- Vision-based measurement and soft sensors.
- Embedded Systems hardware and software.
- Electrical and electronic elements.
- Smart phone application development and security.



### Personal info:

- Age: 33 years old.
- Gender: Male.
- Marital status: Married.
- Nationality: Yemen.

### Contact info:

- Cellphone: +923161121152.
- Email: hayl.khadhami@gmail.com
- Permanent address: Hayel Street, Maean District, Sana'a, Yemen.
- Residential address: Block 9, Golistani-e-Johar, Karachi, Pakistan.

### Languages:

- Arabic (native).
- English (fluent).
- Urdu (basic).
- Chinese (basic=HSK2).

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## Further info:

- My mother tongue is Arabic.
- I got the 3rd rank during undergraduate study with GPA: 81.23%.
- I have a patience ability, durability and work for long periods.
- Curiosity and love teamwork.
- Very respectful and always have ready to perform any new task.
- Work during any time of the day.
- My bachelor and diploma study were during working in Yemen Dairy and Food Products Company aforementioned.

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- ELV (extra-low voltage) systems fundamentals.
- PWM (pulse width modulation) and some of its modern applications.
- BMS (building management systems).
- Electronic circuit and Printed Circuit Board (PCB).
- Solar energy and its components.

## Personal skills:

- Have knowledge in Research Methodologies, Projects Management, Total Quality Management, Supply Chain Management, Modeling and Simulation, Industrial Instrumentation and Measurement, Pattern Recognition, Computer Vision, Six Sigma Management, and Lean and Agile Manufacturing Management which is enough to enable me to occupy any positions, job, or tasks within these fields.
- Working with Python and JupyterLab, Kaggle or Colab to perform some relevant works like training some deep learning models.
- Using some research tools like EndNote, SPSS and Latex project.
- Working with image dataset like acquisition, preprocessing and labeling.
- Programmable logic controller (plc) programing (S5-100, S7-200, S7-300, and S7-1200) with touch panels Human Machine Interface (HMI).
- Design of simple embedded systems using AVR microcontroller and Bascom-AVR IDE (Integrated Development Environment).
- Design PCB with Proteus and Eagle software and solder it.
- Electrical wiring and design the power and control circuit.
- Read and write electrical schematics professionally.
- Install solar cell and inverter power systems.
- High skill in diction gained from teaching.
- Teamwork Senior for automate some industrial machinery.
- Teamwork Senior for new plant electrical wiring.
- Teamwork Senior for new machine commissioning.
- Operation and maintenance of boilers and air compressors.
- Android applications development (basic level).
- Embedded systems implementation and development.
- Ability to perform total quality mgt, supply chain mgt, project mgt gained from master's courses.