

## Mousa Nader

Industrial Engineer || Quality Engineer || MSc Mechatronics Engineer

Email: [mousa22hu@gmail.com](mailto:mousa22hu@gmail.com) | LinkedIn: [Mozes Nader](#) | Phone: +36208095364



### SUMMARY

Analytical and results-driven Industrial Engineer and Quality Engineer with hands-on experience in ergonomic layout analysis, time studies, and structured work instruction development (TVGs). Skilled in implementing ISO standards, conducting audits, capacity planning, lean manufacturing, and production line installation. Trained in MTM/REFA principles through university coursework and on-site implementation at CATL. Proficient in quality inspections, preventive maintenance, and cross-departmental collaboration to optimize production processes. Open to short-term travel in Germany for qualification.

### EXPERIENCE

#### ❖ Industrial Engineer

Contemporary Amperex Technology Hungary Kft.

March 2025 – Currently, Debrecen, Hajdú-Bihar, Hungary

- **Standardization & Work Instructions:** Prepared structured work documentation and supported the development of task-specific workflows (TVGs).
- **Construction & Installation** – Overseeing equipment installation and site coordination.
- **Capacity Planning:** Conducted manpower and resource evaluations to support production ramp-up and optimize equipment utilization.
- **Lean Manufacturing:** Implemented 5S, root cause analysis, and waste reduction tools to enhance operational efficiency.
- **Handover & Inspection** – Supervising equipment handover at the port and warehouse.
- **Cross-Functional Coordination:** Collaborated with engineering, logistics, and facility teams to ensure alignment between infrastructure, safety, and production targets.

#### ❖ Quality And HSE Engineer

EARTHLINK, Al-Watani

December 2024 – March 2025, Baghdad, Iraq

- **Quality Control:** Conducted inspections, site visits, and process evaluations to ensure product and service compliance with quality standards.
- **Process Optimization:** Developed and implemented checklists, analyzed data, and collaborated with cross-functional teams to enhance workflow efficiency and reduce defects.
- **Root Cause & Corrective Actions:** Investigated quality issues, addressing customer complaints, and recommending preventive measures to improve reliability.
- **Supplier & Safety Standards:** Established supplier quality requirements and ensured adherence to HSE policies.
- **Documentation & Training:** Maintained quality documentation, proposed tools, and provided training to support continual improvement and effective process management

#### ❖ Assistant Production Planner Intern

ALMUTAHIDA PACKAGING

September 2024 – November 2024, Babylon, Iraq

- **Inventory Management:** Assisted in managing inventory through daily audits to ensure accuracy.
- **Reporting:** Compiled and analyzed various production reports, including: (Daily Audit, Stock, Invoice, Receipt, Quality Report)
- **Production Planning:** Received training in weekly production planning to align resources effectively.
- **Cross-Department Collaboration:** Worked with maintenance, warehouse, and production departments to improve workflow efficiency.
- **Operational Improvement:** Contributed to identifying and resolving potential bottlenecks in operations.

#### ❖ Internal Audit Engineer

Central Audit Directorate, Ministry of Defense

February 2021 - September 2022, Baghdad, Iraq

- **Quality Assurance:** Performed quality audits on various Iraqi army units to ensure operational compliance with ISO standards by Inspected and evaluated the quantity and quality in equipment and processes.
- **Safety Management:** Developed and implemented safety protocols for food storage, ensuring compliance with safety standards and reducing potential risks.
- **Documentation & Reporting:** Maintained detailed records of assigned duties and promptly reported any infractions. Summarized findings into comprehensive reports for relevant departments, facilitating effective communication and process improvement.

## ❖ Maintenance Engineer Intern

Solico Group

July 2023 - September 2023, Karbala, Iraq

- **Preventive Maintenance:** Implemented preventive maintenance critical food production machinery and industrial testing using a PM checklist, which helped in reducing downtime.
- **Machine Operation:** Collaborated with cross-functional teams to ensure quality and safety compliance during machine operations
- **Safety Protocols:** Gained practical insights into food manufacturing systems and adherence to ISO standards.

## ❖ MSc Mechatronic Engineer

University of Debrecen

September 2022 – June 2024, Debrecen

- **Thesis Project:** Designed and simulated a self-powered tactile sensor based on a piezoelectric mechanism using ANSYS and COMSOL.
- **Research:** Conducted extensive research on EVs architecture tactile sensor and Robotics systems using systematic search strategies like Prisma and meta-analysis.
- **Robotic Systems Modeling:** Modeled robotic systems and analyzed the kinematics parameters for both serial and parallel robot systems.
- **Control Algorithms:** Implemented advanced control algorithms such as PID, State space, and PSA using MATLAB and LabVIEW.
- **Electronic Circuit Design:** Implemented electronic circuit design, prototyping, and PCB layouts using KiCad and Multisim.
- **Lean Management:** Studied lean management principles and techniques such as 5S, A3, and fish bone.

## ❖ Assistance Electric Engineer

Airforce Command, Ministry of Defense

December 2019 - February 2021, Baghdad, Iraq

- **Equipment Installation:** Conducted installation of electrical equipment, apparatus, fixtures, and cables. This experience has equipped me with a strong understanding of electrical systems and their installation procedures.
- **Device Testing:** Tested Cisco devices using software such as GNS3. This has honed my skills in device testing and troubleshooting, which are crucial in maintaining the efficiency of electrical systems.
- **Technical Support:** Provided technical support to other departments, ensuring system maintenance and updates. I compiled and analyzed weekly reports, which helped in monitoring the system's performance and implementing necessary updates.

## SKILLS

**Technical Skills:** Network Fundamentals, Metal Fabrication, PCB, C++, Python, Preventive Maintenance, Troubleshooting, Testing, Lean Manufacturing 7-waste and 5S techniques, 5 whys technique, fish bone technique, Prisma Strategy, and Meta analysis. Inventory Management, Analytical Reporting, Production Planning

**Software:** AutoCAD, COMSOL, ANSYS, MATLAB, LabVIEW, Multisim, CRM, Canva, Adobe Photoshop, Arduino, KICAD, Microsoft Office, Visual Studio. SAP Business

**Soft skills:** Collaboration and Communication, critical thinking, Flexible thinking, Take-Ownership, Industrious, Embrace-Change, Resilient and work ethics.

## EDUCATION

### MSc Mechatronic Engineering

- Minor: Mechatronic Engineering | University of Debrecen, Hungary

September 2022 – July 2024

Achievement: Awarded full scholarship for two years

### B.Sc. Electrical and Electronic Engineering

- Minor: Electronic Engineering | University of Technology, Iraq

September 2013– July 2017

Achievement: 7 out of 51 Graduates

## CERTIFICATIONS

### ➤ Lean Manufacturing Foundations

Linked In | 2022.

### ➤ Python Bootcamp

Udemy | 2023.

### ➤ MATLAB Fundamentals

MathWorks | 2023.

### ➤ Learning LabVIEW

Linked In | 2023.

## REFERENCE

### • Dr. Husam A. Almusawi

Asst-Prof in Mechatronic Department | University of Debrecen  
Email: husam@eng.unideb.hu

### • Szilagyi Ferenc

Advance Industrial Engineer@ CATL  
Email: szilagyiference@Catl.com