

Issa H. Fares

Full-Stack Developer | Mechanical Engineer | Industrial Automation | AI & SCADA Systems

Profile

My professional experience spans full-stack software development, industrial automation, mechanical design, system simulations, and entrepreneurial leadership — accumulated after earning my Bachelor's Degree in Mechanical Engineering from the University of Sheffield in 2020.

Analytical, technically versatile, and growth-driven, I am committed to advancing my career in engineering and technology, with a strong focus on innovation, scalable solutions, and continuous learning.

Work Experience

Software Development | Contractor JAN 2018 - Present

- Proficient in Python, C++, JavaScript, with extensive experience in full-stack development.
- Designed and built scalable ERP systems from scratch, optimizing operations for manufacturing and enterprise clients.
- Developed and integrated SCADA systems with PLCs, improving automation and real-time industrial monitoring.
- Worked extensively with databases, including MySQL and PostgreSQL, for secure and efficient data management.
- Deployed cloud-based applications on AWS, utilizing its services for scalability, security, and high availability.
- Built and trained neural networks for object detection and classification using image datasets.
- Designed and built custom machinery, integrating software-driven control systems for optimized manufacturing and automation.
- Developed a vertical farm control system, managing feeding, air control, operations, and crop growth schedules.
- Utilized Computational Fluid Dynamics (CFD) to analyze fluid behavior in engineered systems.
- Performed Finite Element Analysis (FEA) to assess structural integrity and optimize mechanical designs.

Founder and CEO | African Wild LTD MAR 2018 - JUN 2019

- Established AfricanWild, a company specializing in organic honey production and sales.
- Secured funding for business expansion, demonstrating financial acumen.
- Oversaw end-to-end processes, ensuring operational independence.

Site Manager | HDFsons OCT 2017 - FEB 2018

- Developed control algorithms optimizing machine performance.
- Conducted statistical analyses for machine costing and budgeting.
- Improved profits through data-driven analysis.

Managerial Assistant | Lela Agro AUG 2014 - JUL 2015

- Managed payroll for 500+ employees, ensuring accuracy and compliance.
- Coordinated raw material procurement with the plant manager to optimize supply chain efficiency.
- Tracked machinery maintenance history to improve accountability and future planning.

Education

BEng Mechanical Engineering | University of Sheffield, U.K AUG 2016 — JUN 2021

- Dynamics of Structures and Machines
- Mathematics for Engineering Modelling
- Mechanics of Deformable Solids
- Control Systems

High School Diploma, Lebanon School Kano, Kano, Nigeria SEP 2001 — JUN 2016

Completed Cambridge O-Levels and A-Levels with focus on Math, Physics & Chemistry

Skills & Competences

- 3D Design & Simulations:**
Fusion 360, Blender, AutoCAD, Solid Works, Ansys
- Software Development:**
Python, C++, JavaScript, SQL, AWS, Django, Flask, Node.js, React, Neural Networks, MS Office
- Engineering:**
Control Systems, Structural Design, Simulations, Automation

PERSONAL DETAILS

ADDRESS

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Maitama, Abuja, Nigeria

EMAIL

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PHONE NUMBER

+234 9030020100

NATIONALITY

Lebanese / Nigerian

DATE OF BIRTH

22-DEC-1997

LINKS



SOFT SKILLS

Problem-Solving

Critical thinking

Detail Oriented

Analytical & Strategic Thinking

Adaptability Creativity

Interpersonal and Communication Skills

LANGUAGES

English

Arabic

Hausa

French

ACHIEVEMENTS

International Merit Scholarship

Global Engineering Challenge Award

Founded **SAVING HOPE**, a charity for underprivileged Nigerian children.

HOBBIES

Reading Video Gaming

Mixed Media Art

Animal Enthusiast

Squash Camping

Equestrian Activities