

Fawzi Harami

📍 Warrington, UK • 📞 +447541009792 • ✉ fh@fawzi-portfolio.co.uk / mf_1989@live.com

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Electrical & Electronics Engineer Profile

Electrical and Electronic Engineering alumni with educational credentials and expertise in analysing electrical and electronic circuits, PCB designs by utilising simulation software, such as Multisim, Proteus, Altium, and KiCAD. Ability to design Analogue and digital circuits designing, signals amplification and filtering, switch mode power supply, and PCB reverse engineering. Test electronic components and systems. Proficient in technical drawings and schematics using AutoCAD Electrical, PC Schematics and EPLAN. Knowledge of reading and creating power distribution schemes, and Pneumatics schemes. Design and build electrical panels base on official standards, program and commission control system. Proven ability to work well as part of a team, research, develop, and project management skills.

Areas of Expertise

- Strategic Planning & Analysis.
 - Project Management.
 - Office Administration.
 - MS Office Suites.
 - Linux System (operating, Configuration, security).
 - Database Management (MySQL).
 - Various IT Skills (Windows Server, Windows OS, LAN and WAN).
 - Web Design (HTML5, CSS, PHP, Bootstrap, Photoshop, illustrator).
 - Hardware Maintenance.
 - Troubleshooting and Problems Resolution.
 - Field support
 - FAT support
 - Active Team Player
 - Electronic Circuit Designing
 - PCB Designing (Altium, Proteus, Multisim, and KiCAD).
 - Electronic Devices Configuration
 - Soldering and De-Soldering Skills.
 - Reverse Engineering
 - Fault Reporting.
 - Reading Schematics & Components Datasheets.
 - Knowledge of common Serial Communications Protocols RS232, RS485, SPI, I2C, UART
 - 3D Drawing for Electronic Parts.
 - Keen interest in R&D projects and personal development
 - Cisco Networks Configuration (CCNA, OSPF, AND EIGRP)
 - Basics Programming Skills (C++, Python, JavaScript).
 - PLC Programming (Siemens, Rockwell, Direct Logic, Click, Delta, Simatic S7-200).
 - Create HMI and SCADA Interfaces.
 - Build and Commission Control Panels.
 - 3D Modelling (3D Max).
 - Electrical designs Using (AutoCAD Electrical, Autodesk Inventor, SOLIDWORKS Electrical, EPLAN, PCSchematics, SEE Electrical).
 - Knowledge of Electrical Analysis software (ETAP, SISTEMA, ElectricalOM).
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EDUCATION

- BEng (HONS), Electrical and Electronic Engineering | Manchester Metropolitan University (MMU) alumni, 2018
 - Diploma, Telecommunication Technology | College of the North Atlantic-Qatar, 2014
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EXPERIENCE HIGHLIGHTS

ENVAIR Technology, September 2022 – Present

Electrical Controls and Instrumentation (EC&I) Engineer

Engineering work responsible for leading the electrical design and delivery of standard and bespoke containment and clean air equipment, and work closely with the engineering team to create and develop the electrical schematics, functional design specifications. Utilize Siemens PLC to write programs for machinery to be installed in highly regulated medical and pharmaceutical industries.

- Create and develop detailed electrical design schematics of standard and bespoke machine designs for containment, aseptic, and sterile applications.
- Create electrical wiring schematics and instrument schedules that comply with international standards (e.g., IEC 60204-1 For requirements and recommendations related to the electrical equipment of machinery, BS 7671 Electrical wiring British standard, BS/EN 61010- Safety requirements for electrical equipment, IEC60079 Explosive Area Standard.
- Prepare cable sizing calculations based on BS7671 as requested.
- Prepare intrinsically Safe calculations based on BS EN 60079-11 as requested.
- integrating functional safety considerations throughout the design process of electrical systems and equipment based on BS EN 61508/BS EN 61511

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- Take ownership of the electrical and from product concept through to delivery with the project team.
- Create pneumatics schemes for the airflow system.
- Create P&ID drawing for the airflow system.
- Support with the software design requirements.
- Create PLC programs for machinery to be installed in highly regulated medical and pharmaceutical industries.
- Create user friendly HMI programs for end user monitoring and machinery configuration.
- Support with the control panel building and wiring.
- Prepare and configure of LAN using Routers, managed and unmanaged switch, create VLAN, and ports prioritizing.
- Getting Involved with the R&D project to produce a bespoke project.
- Produce Bills of Materials to provide accurate and detailed specifications for procurement.
- Test the Instruments performance.
- Support pre-FAT and FAT activities where necessary.
- Support field-based engineers on site.
- Work closely with others in the Engineering Team to help develop new products for new and emerging markets.
- Work closely with the Sales Team to offer concept design solutions during quotation and tender process.

Motherwell Tank Gauging, October 2018 – September 2022

Project Engineer

Provide critical engineering support both on-site and workshop. Applying skills across various tasks such as programming electrical panels, testing instruments, and ensuring project quality meets global standards. Lead and oversee multiple projects, from technical assistance to schematic and PCB design, including testing and modifications. Manage timelines and budgets with mentor support, conduct systems and acceptance testing, and liaise directly with client to guarantee project excellence and customer satisfaction.

- Build Electrical panel and PLC programming.
- Test the Instruments performance (hardware and software).
- Perform Technical analyses and prepare engineering reports.
- Maintain project quality base on universal standards.
- Lead and drive multiple projects and design reviews.
- Schematic capture and prepare PCB layout using appropriate tools.
- Generate BOM for the PCB manufacturing.
- Test, Modify, and prepare PCB (soldering and de-soldering components).
- Generate assemble and test procedure.
- Provide technical support and assistance to engineers on site.
- Meet plans, schedules, and costs with assistance from engineering technical mentors.
- Perform practical Systems Testing, and factory acceptance testing.
- Deliver well written instrument manual, and technical drawings (2D, and 3D).
- Involve in technical sales and direct contact with the customers, suppliers and subcontractors as required.

Virgin Media, June 2018 – October 2018

Installation Engineer

Worked as site engineer to install, maintain, and upgrade internet cables, router, and TV boxes. Test the signal strength and fix the losses.

- Install terminal boxes and lead-in-wires, using electrician's tools.
- Routers and switched configuration.
- Repairs cable system, deflect lines, and auxiliary equipment.
- Opens footway carriageway excavations to provide lines and install terminal boxes, auxiliary equipment and appliances, according to diagrams.
- Pulls lines through ducts by hand.
- Computes impedance of wire from distribution to house to determine additional resistance needed for reducing signal to desired level.
- Connect television set to cable system, evaluate incoming signal, and adjust system to ensure optimum reception.
- Measures signal strength at utility cabinet, using electronic test equipment.

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- Installs and removes asset equipment, such as decoders and modems.

Shell Group, December 2015 – June 2018

Customer service

Worked in Sales and customer service at Shell garage. Ensured that the best quality services are delivered to each customer to make their visit to Shell remarkable.

Key Accomplishments:

- Deal with customer complaints efficiently and appropriately
- Ensure security and cleanliness of all areas within the Site
- Help the customers with their enquiries.
- Taking customers calls and provide information about the recent offers and prices.

College of the North Atlantic-Qatar, January 2012 – July 2014

Laboratory Support Assistance

Presented comprehensive assistance to the instructors and students on practical classes and experiments. Oversaw the fixing and servicing of minor damage for system control in the electronic devices.

Key Accomplishments:

- Rendered full range of support for troubleshooting electrical and electronics devices in the labs.
- Replace the failed components from electronic devices PCBs (soldering and de-soldering)
- Prepare PCBs for Lab sessions according to the given schematics.
- Supported project students in arranging essential equipment to lead various projects within time constraints.
- Check the electronic components stock, request quotation, and order materials.
- Configure Cisco Routers and switches to establish LAN, WAN, VOIP.
- Cisco Router security OSPF, EIGRP

Real Estate Centre Company-Qatar, September 2007 – December 2009

Designer

Designed interior and exterior doors by utilising a number of programmes, such as Photoshop, illustrator, AutoCAD, Inventor, and 3DMax software. Maintained company website and updated with latest designs. Accomplished organisational goals and targets by saving many copies of official documents.

Key Accomplishments:

- Liaising with clients to determine their requirements and budget.
- Manage client proposals from typesetting through to design, print and production.
- Work with clients, briefing and advising them with regard to design style, and timescales.
- Prepare rough drafts of material based on an agreed brief.
- Develop concepts, graphics and layouts for product illustrations, company logos and website.
- Review final layouts and suggesting improvements if required.
- Records the financial documents and projects plans using Microsoft Office software Programmes.

MAJOR PROJECTS

Li-Fi data transmission project (university project) | Alstom Rail Project (wheel measuring device, university project) | Graduation Project at CNAQ (Renewable Energy - Sun Tracking System) | Home Security System using Raspberry Pi | Thales Arduino Project competition 2018 (Security System using GSM) | Analogue Sensor Amplification Design Project (motion sensor) | STM32: Internet of Things with 4G LTE Modem – Hardware design.