

Hamed Adefuwa

Electrical Control Engineer

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SUMMARY

Currently working on Siemens PLCs and HMI/SCADA designs for Hydraulic Systems such as Bascule Bridges, Manipulators and Forging Presses. Responsible for Project Management including FDSs, FATs and Risk Assessments. Working towards Chartership with the IET. Owner of an Engineering YouTube channel with 3000+ subscribers. Passionate about Automation, Electronics, IoT and Sustainability.

CORE SKILLS

Automation & Control – Siemens TIA Portal, PLC Programming (Ladder, SCL & FBD), HMI Design (WinCC v7, Comfort & Unified, Ignition), SCADA, Risk Assessments, FDS & FAT Documents, FMEAs, Hardware/Software Configurations, Remote Access Commissioning.

Programming – C & C++ Programming, Delphi, JavaScript, Assembly, STM32 Hardware, Raspberry Pi, Arduino

Hydraulic Systems – Hydraulic Power Unit (HPU) Testing, Proportional Valve Electronic Control, Motor Pump Control, LVDTs

Instrumentation – PLC Fault Finding, Electrical Wiring, Control Panel Builds, LabVIEW, MATLAB, Simulink, Stateflow, Flexsim

Power Electronics – Rectifiers, Inverters, Renewable Energy Generation, Battery Management, Three-Phase Analysis, Motors

Circuit Design & Analysis – AutoCAD, Multisim, KiCad, PCB Prototyping, Soldering, AC & DC Circuit Analysis

Communication – Analogue Filters (RC Filters), Digital Filters, Digital Signal Processing, Spectrum Analysis, Fourier Analysis

EDUCATION

Electrical and Electronics Engineering

Leeds Beckett University, Leeds - First-Class Honours

Sept 2019 - May 2022

Software Development

City and Islington College, London - Grade: Distinction

WORK EXPERIENCE

Electrical Controls Engineer – Oilgear UK, Leeds – May 2022 - Present

Involved in all aspects of Control System Design from planning, designing, purchasing, developing, commissioning, and documenting. Played a key role on multiple projects including a dual manipulator press, 350MN multi-axial forging press and £120m bascule bridge in Suffolk.

Key Responsibilities:

- Design and Specify Electrical Controls for high pressure hydraulic systems
- PLC system design and Programming for Control Systems
- HMI Visualization design & SCADA design
- Creating customer specifications & designs
- Liaise, resource and research with suppliers on technology requirements
- Liaise with sales team on technical support & pre-sales design and information

Energy Broker - Self-Employed, Bradford - 2016 - 2022

Operating a business that helps small business owners & managers manage their energy contracts. Overseeing the renewal process, complaints handling and future planning.

Energy Broker - Utilisave Ltd, Birmingham - 2015 - 2016

Managed a portfolio of customers, helping existing and new business customers get the best rates on their energy.

Sales Rep/Team Leader/Manager - Appco UK, London - 2010 – 2014

Developed a large team of charity fundraisers. Directed training and coaching. Consistently generated £45,000 a week for a variety of charities.