

Hamed Adefuwa

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Electronics Control Engineer

Portfolio: www.hamed.engineer

SUMMARY

Currently working as a PLC Control Engineer designing Hydraulic Control Systems. Also, 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), SCADA, Risk Assessments, FDS & FAT Documents, Hardware/Software Configurations.

Programming – C & C++ Programming, 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 - Grade: 1st

Sept 2019 - May 2022

Software Development

City and Islington College, London - Grade: Distinction

WORK EXPERIENCE

Junior Electronics Control 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 350MN multi-axial forging press and £120m bascule bridge in Surrey.

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.

Fundraising Team Leader - British Red Cross, London - 2014

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.