

# Abdulameer Luay Jawad

## Control and Automation Engineer | I&C & SCADA Specialist

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### Professional Profile

Highly motivated Control and Automation Engineer with a strong foundation in Industrial Control Systems (ICS), instrumentation, and telecommunications. Adept at hardware integration, IT/OT networks, and the installation and commissioning of optical fiber networks and Ethernet/RS485 communication lines. Experienced in working within high-risk EPC environments, ensuring strict adherence to HSE and PTW protocols. Seeking to leverage hands-on experience in PLC/SCADA concepts, instrumentation, and network engineering in a challenging I&C Supervisor role.

### Professional Experience

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| <b>Site Engineer, Al-Burak Communication &amp; Consulting</b><br>Supervise the installation, termination, and maintenance of fiber optic networks and telecom infrastructure at Basrah Gas Company (BGC) sites. Manage field operations and collaborate with contractors, ensuring smooth execution of network deployment and testing. Ensure strict adherence to HSE standards and PTW protocols in complex industrial sites, conducting daily reporting using MS Office. | 02/2026 – Present<br>Basra, Iraq   |
| <b>NPM Optimization Engineer, Huawei</b><br>Assisted in telecom network performance management projects, analyzing data to optimize network reliability and communication flow.                                                                                                                                                                                                                                                                                            | 06/2025 – 01/2026<br>Baghdad, Iraq |
| <b>Hardware Integration Team Member, Siraj Al-Maarefa Company</b><br>Executed hands-on hardware assembly for Industrial IoT (IIoT) projects, including the wiring of sensors, microcontrollers, and communication modules. Integrated RS485 and serial communication devices, ensuring accurate data acquisition from field instruments to central processing units. Conducted component testing and PCB soldering according to complex electrical diagrams.               | 02/2024 – 05/2025<br>Basra, Iraq   |
| <b>Summer Intern (Instrumentation &amp; Control), Basra Oil Refinery (SRC)</b><br>Completed intensive practical training focused on industrial instrumentation, sensors, and control loops within a live refinery environment. Gained foundational knowledge in the operation and monitoring of industrial control and SCADA systems.                                                                                                                                      | 07/2024 – 09/2024<br>Basra, Iraq   |

### Education & Certifications

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| <b>BSc in Control and Automation Engineering Technologies,</b><br><i>Southern Technical University</i> | 2021 – 2025<br>Basra, Iraq |
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## Core Competencies & Technical Skills

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**SCADA & Industrial Control** — PLC Systems (Siemens, Schneider) SCADA & HMI Concepts DCS Instrumentation & Control Loops

**Communication Protocols & Networks** — Fiber Optic Networks Ethernet RS485 Modbus TCP/IP

**Installation & Commissioning** — Testing & Commissioning support Hardware Integration Wiring of Sensors & Microcontrollers Metering & Protection Panel concepts

**Hardware & Electronics** — PCB Soldering Circuit Assembly Component Testing Reading Electrical Schematics Server Racks

**Software & Reporting** — MS Office (Excel, Word, PowerPoint) with strong technical reporting skills

## Education & Certifications

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**Cisco Certified Network Associate (CCNA)**

– In Preparation (Exam scheduled soon)

**HSE & Safety Passports**

Al Rumaila Safety Passport, ROO HSE, BGC PTW (Level 1 & 2), BGC Confined Space, BGC Work at Height.

**Programming**

Python (Beginner/Intermediate), C++ Fundamentals (SoloLearn).

## Projects & Applied Research

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**Smart Voltage & Current Monitoring System (ESP32)**

Designed and programmed an ESP32-based microcontroller system for real-time monitoring of electrical parameters (voltage/current). Configured hardware setups and troubleshooted data transmission, directly applicable to metering panel and data acquisition (SCADA) concepts.

**LLM-Based Predictive Maintenance Device (BSc Final Project)**

Managed the hardware integration phase, ensuring all sensor and microcontroller connections complied with electrical schematics. Engineered an embedded system to process sensor data and fault codes (via RS485/OBD2) from industrial units, validating IT/OT data transmission. Achieved a 30% improvement in diagnostic accuracy in simulations by translating complex technical data into actionable reports.