Qussay Aljanabi
148 Took Drive
Antioch, TN 37013
qjmurad@gmail.com
615.574.2650

Highly skilled electrical engineer with a strong track record planning and executing electrical works projects for new construction, rehabilitation, power grid, and industrial projects. Recognized for performing at the highest levels under challenging circumstances. Team player with the ability to collaborate effectively with customers, vendors, contractors, and consultants on very large and complex efforts.
"[Qussay] takes pride in ensuring that work is performed correctly … that the construction and installation of electrical features are according to the scope of work, specifications, and codes… he is a self-starter that attends to every detail of his job with precision and professionalism" Director of USAID infrastructure rehabilitation program

Areas of Expertise:

- Project Management
- Engineering Planning
- Scoping / Costing
- PLC Programming
- HMI, Factory Talk View.
- Site Supervision
- Analytical Problem Solving
- Cross Functional Collaboration
- AutoCAD
- Solid Works 3D
- QA / QC
- Documentation
- Training
- MATLAB Programming

Education and Training

Master of Engineering (M.Eng.) in Electrical Engineering
08/2013 – 05/2015
Tennessee State University, Nashville, TN 37209

Bachelor of Engineering (B.Eng.) in Electrical and Electronic Engineering
09/1984 – 07/1987
University of Sunderland, Sunderland, UK

NCCER Trainer certificate for Core Curriculum/Electrical/Electronic System Technician
07/2016
NCCER, Alachua, FL 32615.

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Diploma in Industrial Electricity/Electronics/Mechatronics
02/2011 – 04/2012
Tennessee Technology Center at Nashville, Nashville, TN, USA.

Construction Supervisor Level I
07/2005 – 08/2005
Bechtel Company, Baghdad, Iraq.

Professional Experience

Plymouth Tube Company,
Hopkinsville, KY 42240
03/2018 – Present
Process Engineer/ Controls
Plymouth Tube is a global specialty manufacturer of carbon alloy, nickel alloy, and stainless precision steel tubing. Plymouth Engineered Shapes manufactures titanium, stainless, nickel alloy, carbon & alloy semi-finished extrusions and semi-finished shaped bar. Comprised of eight manufacturing plants and nine business units, Plymouth Tube is a family-owned company with fourth generation leadership. We are committed to providing products and services that meet or exceed customer expectations.

Key Projects:

- Develops and designs the controls software packages (Ladder Logic) utilizing Programmable Logic Controllers (PLC) Allen Bradley RSLogix 500, 5000, Studio 5000,and/or Human/Machine Interfaces (HMI) programming with FactoryTalk View, and C-more.
- Develops operation manuals that detail the functionality and set-up of the equipment being designed
- Examines and understands customer-supplied specifications in order to ensure the functionality of the equipment meets these specifications
- Ensures the equipment being started up and commissioned operates in accordance with the customer requirements as outlined in the approved specification
- Programs robotic and/or controls equipment per the customer specifications
- Performs preventative maintenance as requested by the customer to ensure minimum down-time and optimum operation of machines and equipment
- Assists with checking design and details for proper functionality of both his/her work and the work of other engineers
- Provides timely, required service documentation relating to all functions performed
- Provides technical support and training to the end-user at the customer facility
- Ensures that Esys products and services continue to be the benchmark within the industry
- Demonstrates a commitment to Esys Core Beliefs
- Demonstrates a commitment to safe work practices while on Esys or the customer’s premises
- It is responsible to work with type of machining (Press, Conveyors system (Rolling and Chain), Stretchers, Blasters)for designing, programming and installing the associated interfacing with and factory control systems including PLCs (programmable logic controller) and HMI (human-machine interface) software.

- I worked from scratch to develop, design and program 3 system in synchronization to let the part comes from the extrusion by the press to the blaster through the different types of conveyors system by designing the ladder logic through PLC Allen Bradley RSLogix5000.
- Troubleshoot the problems and faults through the PLC in ONLINE with the Ethernet communication system.

Tower Automotive, Meridian, MS 39307
02/2017 – 03/2018
Controls Engineer II
We are dedicated to the safety of our colleagues and supplying quality parts in a timely manner at a competitive cost to our customers. These attributes are the primary reason for our continued growth and will allow us to provide the highest value to ALL of Tower's stakeholders. Together, we are One Tower. Tower is automotive industry build different parts type of the car mostly building the whole frame for Nissan. Also it deals with other clients in automotive.
Key Projects:

- Develops and designs the controls software packages utilizing Programmable Logic Controllers (PLC),and/or Human/Machine Interfaces (HMI)
- Develops operation manuals that detail the functionality and set-up of the equipment being designed
- Examines and understands customer-supplied specifications in order to ensure the functionality of the equipment meets these specifications
- Ensures the equipment being started up and commissioned operates in accordance with the customer requirements as outlined in the approved specification
- Programs robotic and/or controls equipment per the customer specifications
- Performs preventative maintenance as requested by the customer to ensure minimum down-time and optimum operation of machines and equipment
- Assists with checking design and details for proper functionality of both his/her work and the work of other engineers
- Provides timely, required service documentation relating to all functions performed
- Provides technical support and training to the end-user at the customer facility
- Ensures that Esys products and services continue to be the benchmark within the industry
- Demonstrates a commitment to Esys Core Beliefs
- Demonstrates a commitment to safe work practices while on Esys or the customer's premises
- This position is responsible for designing, programming and installing robotic systems and the associated interfacing with other factory control systems including PLCs (programmable logic controller) and HMI (human-machine interface) software.
- Provides technical support of the continuous improvements (CI) to the assembly lines to make the parts accepted by the QA/QC by installing new different types of sensors, valves, etc and programming the PLC controller (RSLogix 500, 5000, Studio 5000). Also programming the HMI.

Miller-Motte Technical College,
Madison, TN 37115
08/2015 – 02/2017
Electrical Engineering Instructor

Miller-Motte Technical College is one of the leader's in education with campuses and facilities to match the high-tech and fast-paced nature of the job market. Our programs and our instructors reflect our high standards of education and job placement. We continue to dedicate our efforts to helping people gain a quality education and launch successful careers.

Key Projects:

- Conducts college-level courses in the field of electrical engineering.
- Areas of instruction include engineering theories that teach the students the design and application of electronics and electrical systems, PLC, NEC, HMI, etc.
- Responsible for preparing and delivering lectures, leading and moderating classroom discussions, and administering and grading examinations.

Communication Test Design Inc. (CTDI),
Lebanon, TN 37090, USA
05/2014 – 02/2017
Electronics Repair Engineer

Founded in 1975, CTDI is a full-service, global engineering, repair and logistics company providing best-cost solutions to the communications industry. My works deals with controllers, power units, IP office, Ethernet, other types of telecommunications.

Key Projects:

- Analytical Skills: Solve issues that might not have a clear solution. Being able to experiment and use trial and error is important.
- Communication: Ask questions and listen to customers in order to find out the issue, explain the problem in a clear and understandable way, and give them options for repair or replacement.
- IT Skills: Using diagnostic tools like multimeters, oscilloscope analyzer, communication cables testers, etc. to assess or monitor computer systems requires knowledge of skills.
- Dexterity: Using the hands to manipulate objects within the computer.
- Troubleshooting: Diagnose, repair and test computer problems as they arise.

Tennessee State University,
Nashville, TN 37209, USA
08/2013 – 05/2014
Research Assistant (RA) & Teaching Assistance (TA)| work and study

Ambitious student with excellent research, time management and problem solving skills. Creative student adept at developing innovative design concepts. Brings knowledge from coursework in electrical engineering, robotics, and imaging processing.

Tacle Seating, Mt Juliet, TN
01/2014 – 08/2014
Controls/Robotics Supervisor (Aerotek Contract)

Responsible for night shift supervision over Controls/Robotics for a high volume automotive manufacturing facility.
Facilitated programming and trouble shooting of a variety of automated and robotic systems.
Worked with Motoman robotics, Allen Bradley Control Logix 500/5000, HMI, Factory Talk View.

Parker Hannifin Corporation, Lebanon, TN 37087, USA
05/2012 – 10/2013

Lead Maintenance | Consultant
Provided engineering expertise to a $12 Billion publically-traded company. Generated large-scale production facility designs for senior leadership. Performed electrical and mechanical maintenance on all industrial equipment and facility systems.
Key Projects:

- Production Plant Re-Design: Produced Auto-CAD drawings for three facility design proposals. Built designs based on deep understanding of business needs and specifications.
- Ongoing Electrical & Control Maintenance: Directed and lead maintenance team on assigned projects. Follow up on preventive maintenance tasks and managed resource planning. Repaired electrical equipment using diagnostic equipment and PLC programming (RS-Logix 500), HMI, Factory Talk View. Installed and modified new production facility equipment.

Tennessee College of Applied Technology Nashville,
Nashville, TN 37209, USA
02/2011 – 04/2012
Electrical and Electronics Engineer
As a student, demonstrated mastery of electrical engineering curriculum. Resulted in transition from classroom learning to project-based refinement of electrical engineering skill.
Key Projects:

- Electrical Laboratory Re-Design: Created commissioning procedures for the re-design of an Electrical Department laboratory to support day-to-day academic operations. Re-designed power supply to produce a reliable Electrical laboratory environment.
- Auto-CAD Electrical Engineering Tutor: Provided electrical engineering expertise to local students on the utilization of Auto-CAD for wiring designs of electrical works.
- On-Site Engineering Consultant: As a student, provided electrical and electronic systems engineering expertise. Prepared project cost and work-time estimates. Performed supervisory duties.
- PLC programming of Allen Bradley (RS-Logix 500 and RS-Logix 5000): Provided electrical engineering expertise to local students on utilizations of PLC programming (RS-Logix 500 and RS-Logix 5000) using Allen Bradley, HMI, Factory Talk View.

BW Gulf Consulting Engineers,
Planners & Managers, UAE
12/2006 – 08/2009
Nashville, TN 37211
01/2010 – 01/2011
Senior Electrical Engineer
Reviewed and approved contractor drawings, documents and materials and performed site inspections related to large infrastructure development work under direction of Resident Engineer. Collaborated in a fast paced environment to meet all deadlines and fulfill detailed requirements for high value capital projects. Using the AutoCAD and NEC, BS standards in designing.
Key Projects:

- New 75-bed hospital (UAE): Consultant Senior Electrical Engineer for design of electrical works. Projects involved high voltage, LV panels, generator, lighting and power, low current systems (CCTV, access control, SMATV, data, telephone, IPTV, fire alarm).

- Abraj Al-Raha Enterprise Center(UAE): Consultant Senior Electrical Engineer for Phase 2, five towers with total area of 230,000m2 (two high rise towers). Complexes contain residential, administrative, health and social clubs, retail store, and workshops.
- Project Management: This and additional projects in the region completed for RW Armstrong, US-based consulting company. Consistently met all deadlines and project requirements of the consultant and client.

United States Agency of International Development (USAID), Iraq
05/2005 – 12/2006
Electrical Engineer | QA/QC Engineer
Working under adverse and very challenging conditions, provided key support for infrastructure rehabilitation projects in post-war Iraq. Reported to Program Manager from inception to hand over from primary contractor. Maintained a highly disciplined and tenacious approach to ensure progress and resolve issues in early stages. Using Auto-CAD to draw and review the design drawings.
Key Projects & Contributions:

- QA/QC Engineering: for infrastructure rehabilitation and new construction.
- National Power Grid Reconstruction: engineering team member to design and rebuild national power grid, a large effort that produced several hundred kilometers of transmission lines and 37 new distribution substations (for new capacity total of 1100+ MW).
- Power Plant and Water Treatment Re-Engineering: Key efforts included involved in rehabilitating power plant (160 MW), new power plant construction (200 MW), power substations (33/11 KV and 132/33 KV), as well as water and water sewage treatment plants.
- Award Recipient: Received multiple awards for contributions, including Meritorious Service (2005), Certification of Appreciation (2005), and Group Award for Development Assistance (2005).

Additional Experience
Project Manager – Projects & Contracting Office, Vinsan company: Performed programming and planning for engineering works for maximum / medium security correctional facility and expressway / freeway project totaling 170 km. (2004 - 2005)

Instrumentation Engineer, Ebna Anwar Alakad / Oil Field: Calibrated and configured PLCs for auto drive driller. Repaired and maintained sensors. Installed and dismantled communication system between rig and base. (2003)

Senior Electrical Engineer, Premier Urgence, International Humanitarian NGO: Scope of works, specifications, designs, drawings using Auto-CAD, cost evaluation and site supervision for hospital rehabilitation projects (general, pediatric, neurosurgical hospitals). Trained hospital technical staff in maintenance matters. (1999 – 2004)

Consultant Electrical Engineer, Various Companies: Maintained, repaired and designed control systems. Prepared scopes, requirements, costing. Site supervisor. (1998 – 1999)

Computer skills include Auto-CAD, Solid Work, Office (Word, Excel, Power Point, Outlook), MS Project planning and Primavera project planning.
PLC programming (RS-Logix 500, RS Logix 5000)
Member of Phi Kappa Phi Honor society.
Member of Golden Key Honor society.