VIDYUT RAJKOTIA
Visa Status – Permanent Resident

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Summary
- Electrical Controls Engineer offering hands-on experience with nine plus years of experience in designing electrical schematics and implementing power systems, automation and controls.
- Well-versed in developing technical studies, guides, references, reports and investigations.
- Efficient and focused with proficiency in Electrical Engineering Design, Electrical Control Panel Wiring, PLC, HMI, Control systems applications development, System integration, Testing and troubleshooting, Failure analysis.
- Accustomed to highly effective multidisciplinary teams to complete projects in alignment with corporate goals.

Skills
- Electrical Design: Circuit schematic design, Lab View, Eagle, PLCs, PCB Layout design.
- Software: Microsoft Office XP, MS Excel, MS Word, PowerPoint, Project, One Note, Visual Basic, Teams.
- Programming: AB, Siemens, VFD, Robot, MATLAB, C, View Designer, Studio 5000, Ignition, Plant Pax, Red Lion, Intrinsic, Kuka.
- CAD Software's: Expert in AutoCAD Electrical, SolidWorks, Creo (Intermediate)
- Hands-on: Soldering, wiring, machining, Voltage/Current testing, debugging issues with circuits, Welding Applications, Semiconductor application, Waste-water applications, Study Energy metering Project, Marine Exhaust Treatment Systems, Distributed Warehouse Systems, Food Packing systems, Microchip production and cleaning systems, Robotic graphite painting application, Automotive/Rivet Manufacturing applications.

Certifications
- STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE (NFPA 70E).
- NETWORK MANAGER/STRATIX
- UL508A

Experience

IMS Nanofabrication, Portland, OR   **08/2024-Current**
Electrical Support Engineer
- Reviewed PLC code for installation as well on the tool for troubleshooting
- Read and interpreted the logic circuits and electrical schematics.
- Assisted with cable layout and termination during tool installation and troubleshooting.
- Worked on Troubleshooting and resolving electrical faults.
- Testing automated systems for efficiency, safety, and reliability.
- Meet and know the client's requirements for electrical and mechanical needs.
- Mentor and support FSEs and other team members for ongoing issues, procedures to implement.
- Documenting issues and steps to resolve electrical issues on the tool.

Concept Systems, Portland, OR   **02/2024-05/2024**
Senior Engineer
- Lead engineer and primary point of contact for project-related customer interactions, implemented project schedule, project budget as well ensured compliance of systems based on safety requirements.
- Implemented R2D2 workshop wherein worked on programming robot and vision system implementing work cell designs and mechanical components.

- Provided sales and marketing support on areas focused on Automation demand and companies which need utilization of automation solutions as well evaluation of software platforms for different applications as per customer's needs.
- Performed Factory Acceptance Test, Implemented Commissioning procedures/ Testing/ HMI development/ SCADA/Safety and Networking.
- Collaborated with Vendors and suppliers to obtain quotes as well as understand product functionalities for cost comparisons, estimate hardware procurement timeline etc.
- Integrated with team members from different platforms such as Manufacturing Manager, Purchasing, Operations, Mechanical as being the Senior Lead Programmer/Engineer managed record keeping, organizing teams meeting to Controls Manager as well relevant team members about project modifications.
- Mentored new team members on new hire training schedule, understanding company insights, establishing communication platforms.

His Innovations Group, Hillsboro, OR   **08/2022-01/2024**
Electrical Design Engineer
- Developing electrical schematics for projects to Intel delivering vacuum pumps designs, sinks, surface tech for asphalt formation.
- Speculated electrical components having UL508A Certification, performed research on testing new sensors for applications for Leak testing, appropriate sensor utilization. Designed Safety wiring concept to avoid catastrophic electrical failures or malfunctions.
- Performed Electrical Commissioning/Testing/PLC programming/HMI programming/Electrical Test Checklist.
- Designing, customizing, implementing as well validating efficient automation solutions.
- Performed Cost Compare Analysis for utilization of in-house-shelf components to reduce costs and improve efficiency.
- Collaborated with team members from different platforms such as Assembly, Purchasing, MFE, Document Control, Mechanical as being the Lead Design Programmer/Engineer managed record keeping, organizing teams meeting to ensure all members about project modifications.
- Developed Electrical Commissioning Procedure Test Checklist, Created Truth-Table for process control, Different Recipes, HMI programming quick-guide for Enhanced Customer user-interface experience, Overflow sensor Calibration Procedure.

Tetra Pak, Vancouver, WA   **01/2022-**
07/2022 Automation Engineer
- Developing as well as implementing new strategic capabilities reflecting fast-reflecting changing technology landscape and its inevitable impact on company's strategy.
- Provide technical solutions as well working on the implementation of Projects.
- Designing, customizing, implementing as well validating efficient automation solutions.
- Ensuring product quality consistently and reducing total cost.
- Developing projects by programming PLC (Siemens), Human Machine Interface (HMI), and drives.
- Developing networks and furthering the knowledge in automation systems.
- Involved in continuous improvement projects as well working with cross-functional environments, multidisciplinary groups with process engineers and mechanical engineers.

CBRE Amazon PDX9 | Troutdale, OR   **12/2019 –12/2021**
Lead Material Handling Equipment PLC Controls Eng
- Providing support with fulfillment center operations, focusing on maintaining, troubleshooting, and modifying material handling control systems equipment to ensure operational performance of material handling equipment such as conveyors, sortation systems, scanners, cameras, print and apply for systems, SCADA devices, and programs.

- Maintaining, troubleshooting, and modifying software programs for material handling control systems, power distribution systems, branch circuits lighting systems, transformers, wiring methods/ materials up to 480V including RS Logix 500 PLC/PC controllers and industrial networks such as Ethernet, ControlNet, Device Net, Profibus, Motor control systems, Servo drives, frequency drives, Robotic systems, HMI, and electrical distribution systems.
- Facilitating first-level escalation support for the CST teams, also downtime situations to vendor/ headquarters for support to restore equipment operations.
- Monitoring MHE metrics and partners with facilities/operations for system performance issues both with assigned FC and with like systems in similar FC systems.
- Collaborating with Facility Operations Leadership, Equipment Vendors, and Parts suppliers to plan and coordinate new technology installations, communicating technical issues and project timelines with building leadership, operations, and the maintenance team.
- Providing explanations of the production impacts and working closely with operations and engineering management to ensure a thorough understanding of impact systems, utilizing FC network resources for guidance and assistance.

US Engineering | Wyoming, MI   05/2019 – 10/2019
Controls Engineer
- Prototyping industrial equipment, brainstorming concepts for production assembly, designing electrical and pneumatic systems in AutoCAD Electrical, Panel Modifications, and creating PLC and HMI programs for machine in Resistance welding applications, component assembly applications.
- Programming, wiring, assembly, safety controller and troubleshooting of automated manufacturing components, implemented Ethernet I/O link communication, Device-net, SLC processors, Etaps, Point IO's, Armor blocks I/O modules for RFID application.
- Design Experience (Multi-Axis) in most industrial robots (Fanuc, KUKA), setting DCS fence parameters for new/existing lines, engineering documentation to support manufacturing equipment (SOP's, LOTO).
- Interpreting manuals, quotes, and designing a machine to UL standards (NFPA 79, UL508A), drawing schematics, creating/modifying billing of material, and uploading to PLM.
- Assume responsibility for engineering scope of work for electrical design, budgets, cost, and order materials quantities.
- Experience in mathematics calculations for the design of electrical/ Electrical loads.
- Visit client site for monitoring progress of work and maintain a positive business relationship.

GWI Engineering | Grand Rapids, MI   09/2017 – 04/2019
Controls Engineer
- Develop electrical design, schematics, and drawings in AutoCAD.
- Interpret mechanical design drawings for electrical requirements (e.g., SolidWorks).
- Help establish new and maintain existing standards.
- Power up electrical systems and configure hardware per application specifications, develop robot structures, assist in robot start-ups, improve Robot Cycle Time, integrate robot with PLC and HMI.
- Utilized software including AutoCAD, Studio 5000, RS Logix 500, TIA Portal and Factory Talk View Studio, Mil to test whether project is implementable, SIL to develop software/ HDL code for hardware implementation for simulation.
- Reviewed design drawings, specifications and customer requirements for newly engineered components and processes.
- Installed and maintained production machinery on the shop floor and modified production and manufacturing procedures.

Education:

Western Michigan University | Kalamazoo, MI
Master of Science in Electrical Engineering [GPA 3.30]   2017
Majors [Communication Systems and Electric Power Systems]
Bachelor of Science in Electronics Engineering [GPA-3.40]   2014
KJ Somaiya College of Engineering | MUMBAI
Campbellsville University| Louisville, KY   2022
Master's in professional MBA Program