

Edgar Barrera Serrano

Seeking job opportunities

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Professional Summary

Seeking a full-time position in an environment that offers a greater challenging, that will utilize my strengths to the fullest, and provide great customer satisfaction with the products they will receive. Also, to have the opportunity to grow within the company

Authorized to work in the US for any employer

Work Experience

Electro-Mechanical Assembler

A.D. Susman & Associates Inc.-Houston, TX

February 2025 to Present

- Build various types of electrical cabinets, including junction boxes, single-door, and double-door large enclosures equipped with breakers, switches, fuses, indicator lights, and other components.
- Assisted with redlining electrical drawings to enhance accuracy and clarity.
- Developed Standard Work Instructions (SWIs) for the Hitachi line to streamline processes and improve task clarity.
- Proactively identified opportunities for workplace improvements and communicated suggestions to the appropriate teams.
- Prioritized safety by consistently proposing safety enhancements and maintaining a safe environment for colleagues and visitors.
- Ensured high-quality products were delivered to customers on time, upholding company standards and customer satisfaction.
- Supported training new employees to promote smooth transitions and consistent productivity.
- Applied 5S principals to maintain a clean, organized, safe, and efficient workplace environment.
- Prepared electrical components (wires, connectors, circuit boards) and mechanical parts (brackets, housings, shafts) for precise and efficient assembly.
- Built and routed wire harnesses per schematics, performing tasks such as wire stripping and crimping to ensure a secured connection.
- Aligned and fitted mechanical components accurately within assemblies, maintaining tight tolerances and structural integrity.
- Interpreted technical drawings, schematics, and blueprints to determine correct component placement and sequence of assembly operations.
- Provided support to the supervisor by assisting with various tasks to enhance productivity.
- Assemble switchgear units with main breakers for Mustang Cat.
- Perform mechanical assembly of the switchgear using both power tools and hand tools.
- Troubleshoot and identify possible solutions to any issues that may arise during assembly.
- Wire breakers and all other internal components within the cabinet according to specifications.

Mechanical and Electrical Assembler

Schlumberger-Sugar Land, TX

November 2021 to Present

- Make sure all material it is needed for the job, including Schlumberger BOM, customer BOM, and Assembly Drawings.
- Assemble various Downhole Tools in accordance with Standard Work Instructions, Assembly drawings, and/or specific given instructions by the Manufacturing Engineering (ME) or production Line Manager (PLM) in the fusion area. Tools including FDMDW, DDR, and FDRES(ELECTRA).
- Build various Surface Mount Equipment in accordance with Standard Work Instructions (SWI), Assembly Drawings, and/or specific given instructions. Equipment including FDSS and personality Adapters.
- Install small chassis to build the E-Chassis.
- Install all boards on chassis, GamaRay detector, Gems Gauge, and DNI sensor
- Check and verify for damage or pinch wires before and after installing them on boards.
- Install wiring harness on tools, guiding them correctly for each board and making sure they do not stick out to where wires will be damage when inserting into the collar.
- Solder and/or crimp wires to connectors, using SN 96 solder and various type of crimping tools along with different settings.
- Keep track of serialized parts using a Quality Traver or Traceability Sheet.
- Send tool for bench and heat test.
- Finalize tools in accordance with SWIs and Assembly Drawings
- Inspect tool and do rework as needed in accordance with SLB standards
- Build cable assemblies for tool
- Perform 6s audits on a daily basis to maintain area clean and organized.
- Continuously doing HSE reporting including Observation Intervention, RIR, SQ reports, etc to keep a safe environment and to keep everyone safe. This helps to minimize risks and to be alert for possible risks to keep ourselves and our colleagues safe.
- Continuously involved in training and/or certifications through Quest.
- Met and exceeded monthly quota. Able to work under a fast pace environment, excellent in working under pressure. Can work under limited supervision, but also a team player.
- Continuously looking for work place improvement ideas and to make my job easier in a safe way.
- Always believe in STOP the job, report if there are any issues to ME and PLM, get involved with the team to look for possible solutions. Also STOP the job and ask questions if something doesn't make sense including SWIs or given instructions.
- Collaborates with engineering to assure drawings and procedures are being updated. Adding red lines on work instructions, talk with PLM and ME to approve the red lines, give ideas and suggestions.
- Continuously involved in production meetings and not afraid to speak up when needed.
- IPC 610 certified, MFG Local Workmanship Certification, and Forklift certified.
- Always open for improving and to grow within the company.
- Some experience as testing technician.
- Quality assurance on every tool I make.
- Fast learner and detailed oriented.

Assembler/Production

TXSWISS-Conroe, TX

February 2020 to November 2021

Assembling Bolt Carrier Groups (BCGs) for AR-15 rifles

- Perform inspection on all parts before assembly
- Assembled bolts: install ejector, extractor, springs, o-rings, etc
- Install gas key on carrier making sure it sits flush with no gaps to prevent gas to escape when firing the guns.
- Install bolts into carrier and securing it with pins

- Test complete assembly with upper receiver
- Helped to train new employees
- Made sure all products were made correctly
- Perform inspections, reworked malfunction and bad parts
- Kept area clean at all times (even though we used a lot of oil and lubricants)
- Helped in tumble process sometimes
- Helped in processing area to package parts, count parts, and inspect parts.
- Met and exceeded monthly quota

Electronic Assembler

Schlumberger oil field-Sugar Land, TX

June 2020 to December 2020

- Make sure all parts received are correct in accordance with Building Material (BOM) and/or schematic (drawing), verify components for PCB boards are correct, check the components values and correct tolerance.
- Bake PCB board before working on them
- Keep track of exposure time on boards before they need to be bake again
- Solder through hole components on the boards, build up special components as per drawings, and verify all solder connections are good.
- Do full inspection and needed tests on boards before it goes to Quality Control
- After Quality Control, finalize boards for final assembly. Add potting when needed, install components or special made components on secondary side of the boards.
- Send to Final QC and shipped it out.
- keep all Quest certifications and trainings up to date, including safety training. Notify Observation Intervention and Risk Interventions through Schlumberger Quest every month for keeping everyone safe.
- Got laid off due to Covid 19

Martial Arts Instructor and front desk receptionist

Valor Martial Arts Studio-Houston, TX

June 2019 to March 2020

- Teach responsibility, discipline, and self focus to kids
- Teach Tae Kwon Do Martial Arts to kids and parents including exercise and basic stretching exercise

Been in charge of the school by myself:

1. Help parents with their needs, keep a constant communication with parents and students
2. Process payments every month
3. Maintain the school clean
4. Answer phone calls, assist with new students applications and putting them in the system.
5. Do any front desk activity when necessary

Tumble Machine Operator

Valco Instruments

November 2017 to June 2019

- Trouble Shoot equipment
- Met Production goals
- Followed Standard Operation Procedures
- Train and adhere to new procedures
- forklift operator licensed when needed

Electronics Assembler

Valco Instruments-Houston, TX

February 2013 to November 2017

Electronics department micro assembly line

- Actuator Builder: assemble parts and install PCB boards, connectors, and wires.
- Solder all connectors, wires, PCB boards, and anything that requires soldering in accordance with IPC-610 standards.
- Tested and aligned parts per drawings and specs
- Performed test on completed parts, to assure effectiveness.
- Perform inspection and perform rework if needed.
- Met and exceeded monthly quota.
- Helped in the valve assembly line
- Helped in valve washing

Child care teacher

Kids R Kids Copperfield

November 2011 to February 2013

- Communicate with staff and Family
- Prepare daily activities, for the students
- Supervise and play daily
- Provide a safe and structured caring environment for all the students.

Education

Business management (Associate)

Lone Star College System

Associate of Arts

Lone Star College Cy fair

Skills

- Assembly
- Soldering irons
- Power tools
- Materials Handling
- Connector assembly
- Wire strippers
- Microsoft Word
- Oil & gas
- Electronics assembly
- Microsoft Office
- Manufacturing
- Wire crimpers

- Ability to follow instructions (10+ years)
- Blueprint Reading
- Wire harness assembly
- Computer literacy
- Attention to detail
- Written and verbal
- SAP
- Passport requirements compliance
- Mechanical drawings
- Quality Inspection
- Quality Assurance
- Forklift
- PCB
- Hand tools
- Soldering
- Electrical wiring
- Computer skills
- Microsoft Excel
- Schematics
- Problem solving
- Computer Networking
- Leadership skills
- IPC 610

Languages

- English

Certifications and Licenses

Driver's License

IPC-610 Certification

Forklift Certification

Additional Information

Skills

- Good communications skills • Detailed oriented • Independent worker • Excellent team work • Problem solving and troubleshooting • Leadership skills • Ability to read assembly diagrams and drawings • Ability to read and understand

written and verbal instructions • critical thinking skills