**Enrique Alejandro Barragan**

**Local to Guanajuato, Mexico (willing to relocate to Fort Lauderdale, FL)**

**Mexican citizen looking for work visa to work in USA**

**Summary**

* Professional Electrical Engineer with 7+ years of experience in Electrical & Control Design Engineer.
* Programming: (Plc, Hmi, Robots, Vision, Cnc.) SIEMENS, AB, FANUC, COGNEX, etc.
* Integrated a Fanuc robot with PLC Control logixs, Ethernet communication between eight machines to move the differencial parts in AAM.
* New products implementation: PLC and HMI´s programming (Siemens y Mitsubishi).
* Proficiency in EPLAN and AutoCAD, along with a strong command of various electrical design tools.

**Employment History**

**General Motors 2018- Present**

**Sr. Controls Engineer (FF)**

* Manage and Project Management.
* Programming (Plc, Hmi, Robots, Vision, Cnc.) SIEMENS, AB, FANUC, COGNEX, etc.
* Autosave Administrator, UD & C, FACS (server).
* Application and implementation of NPPs Projects. (Non-Portfolio Project), review levels of obsolescence in installed equipment.
* IT contact for floor systems, Andon, Servers, Flexnet, etc.
* Generate and Approve SC, Scope of OEM's (coordinate support in floor)
* Control of department to manufacturing account.
* Sub Champion MOC (Management of Change)
* Support in United States plants Bedford Indiana (Foundry) and Romulus (Transmission assembly plant).

**General Motors 2013- 2018**

**Maintenance Coordinator**

* Development and maintenance of a timetable for implementation of action plans based on dates of implementation of action plans and priorities
* KPI´s of maintenance
* Implement and facilitator RCM2
* Support and facilitate the work of maintenance supervisors , like his technical people (12 supervisors, 96 technicians)
* Perform and exercise the budget for spare parts, EPP, OEM, etc.
* Stock coordinate spare parts.
* Ensure that action plans and monitoring indicators actually generate the expected accomplishments and therefore compliance with the standards and status of GM
* Programming training for technical people and supervisors.
* Support in the area of controls and mechanics.
* To ensure that persons required (support, etc.) are properly defined.

**General Motors 2012-13**

**Controls Engineer**

* Ensure that Plant Floor Computers are properly protected at all times. Manage Solidcore, ePO and other software to protect PCs. Update Antivirus versions and Operating System patches.
* Study, analyze and update Engineering drawings in Autocad / ePlan.
* Perform program, logic and/or parameter modifications in the M&E. Part
* Maintain and update the Controls Device Matrix.
* Communicate Controls Lessons Learned to the rest of the GM plants.
* Create and/or improve Error Proofing Systems.
* Support Part Trial Runs.
* Improve the Manufacturing Systems, following the PPCR guidelines.
* Improve Cycle Time.
* Solve M&E Critical problems. Aid the Skilled Trades in troubleshooting.
* Train Skilled Trades and Group Leaders. Prepare manuals and quick troubleshooting guides.
* Maintain the Plants laptops and/or programmers. Update and upgrade Machinery interfacing software.
* Detect non-authorized bypass / jumper utilization (in both hardware and software). Report and remove as appropriate.
* Review Maximo Maintenance Work Orders, evaluate and improve. Create detailed Preventive Maintenance procedures to prevent problems and take advantage of Lessons Learned.
* Dig in PFS data (i.e. QC&A, OSS) to provide useful information about product discrepancies and process failure modes, in case of a Spill or a Pull event.
* Maintain Plant Floor Systems functionality and infrastructure.
* Deploy Manual Operating Procedures in case an IS&S supported system fails.
* Review and prepare Statement Of Requirements.
* Meet OEMs, perform proper clarifications.
* Visit OEM facilities, determine if OEM has adequate infrastructure to build the specified M&E.
* Deliver technical evaluation of each OEM proposal to ME, so it can be submitted to Purchasing.

**CEC CONTROLS 2011-2012**

* Integrated a Fanuc robot with PLC Control logixs, Ethernet communication between eight machines to move the differencial parts in AAM.
* Installation of 10 stations on the line of engines to Ford for the system Error Proofing, increasing 6 AIS with different processes.
* Programming and startup to indexer seamseal and antichip in paint area at GM Silao.
* Programming of robots for inspection to monoblock cell 8 cylinder GEN 5 in FANUC Detroit from GM Toluca.
* Startup to proyect from installation the conveyors and programming to PLC and HIM in Ford Detroit.

**USM DE MEXICO 2011-2011**

* In Site Controls Group Coordinator.
* Maintenance supoort (automation), PLC programming (Allen Bradley, Fanuc, Modicom), Robots programming (Fanuc) and CNC programming (Mori Seeky, Okuma and Mazak).
* Continous improvement process for automation.

**HELLA ELECTRONICS MEXICO 2010-2011**

* Design and implementation of preventive and corrective maintenance programs. Electronics boards, drives and servomotors maintenance.
* Production machinery and equipment support (assembly stations, test stations, final adjust stations).
* New products implementation: PLC and HMI´s programming (Siemens y Mitsubishi).
* Design and implementation of error proofing devices. Vision systems programming. Electrical and pneumatic fasteners maintenance.
* Maintenance suppliers contact.
* Selective and SEHO welders.

**VALEO ALTERNADORES 2007-2010**

* Installation, set up and star up of wirings machines, Stators and starters wiring coils machines maintenance.
* Technical support to accomplish productions targets.
* Programming and detection of plc, actuators and servos faults**.**

**FEVISA DEL POTOSI 2004-2007**

* Electronic Leader of Manufacture.
* Electronic and electrical maintenance responsible. Purchasing, Installation and start up of glass packages machines.
* Projects develop with plc Siemens and Allen Bradley and FANUC robots programming and maintenance.

**Education**

* Master's degree in strategic administration.
* Manufacturing industrial engenier.
* TSU electricity and industrial electronics. (Title and professional license of 3)