Ricardo E. Bernal

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- **Automation Technologies Engineer**
- **Advanced Technical Degree in Electronics and Automation**

Education

2010- 2012 Queretaro Technological University (Mexico)

- Automation Technologies Engineer

2008-2010 Pasadena City College PCC (USA)

- English as a Second Language Program

2005–2007 Queretaro Technological University (Mexico)

- Advanced Technical Degree in Electronics and Automation

Languages

English

Bilingual

- Pasadena City College ESL Certified, California, USA.

Spanish (Native Language)

Work Experience

February 2018 - Today **ASI Engineering Assistance and Solutions**

Automation Engineer (Company Co-Founder)

- Design and Development of Industrial Automation Technologies.
- Web: https://asiingenieria.com/

September 2012 to February 2018 **ELECTROLUX Argentina**

Automation Engineer

- Development, design, programming and implementing of measurement and data acquisition software for different laboratories for Raw Material Quality Control, Finished Product Quality Assurance and Development of new products performance and energy efficiency certification (LabVIEW, OPC Servers, National Instruments PXIe, National Instuments DAQ).

- Development, design, programming and implementation of electrical instrumentation panel boards for different laboratories (Yokogawa, National Instruments, Janitza, Julabo, Johnson Controls).

- Development, design, programming of electrical control and power boards for different laboratories and production line equipment (Siemens S7-200, Omron, SEW, Johnson Controls).

- Development and design of electrical harnesses for Washing Machines, Direct-cool Refrigerators, No-Frost Refrigerators, Chest Freezers and Upright Display Refrigerators.

- Development and design of electrical and electronic components for the entire product line.

June 2011 to February 2012 **CARSO Development and Research Center (CIDEC)**

Mechatronics Design Engineer (Internship)

- Electronic/Electrical Control Design for Industry Equipment
- Implementation of Automatic Control Systems for Mining Mobility Equipment (Grasshoppers)
- Implementation of Radio Frequency Remote Control for Industrial Machinery.
- GRAFCET Schematics for Modeling Automated Process Sequences.
- FPGAs programming (Altera, Xilinx)

June 2011 to August 2011 **CARSO Development and Research Center (CIDEC)**

Chosen to participate in the event "International Outreach Program in Mexico", organized by Clemson University, SC. and West Virginia University, WV, USA.

- I teamed up with American students from the universities of Clemson and WVU to design, develop and implement a project in the industrial sector with a time limit of 6 weeks.
- The project named "Mobility Subsystem Design for a Mobile Band Conveyor System for the Mining Industry" was held in the CARSO Research and Development Center (CIDEC).
- I designed the electronic/electrical remote and fixed control systems of a mobile conveyor for the mining industry.

September 2010 to April 2011 **KOSTAL Mexicana S.A. de C.V.**

IMDS System Coordinator (International Material Data System)

- Review PPAP Documentation (Production Part Approval Process)
- IMDS Files Release and Approval.
- Set and Release of Production Line Final-Testers.
- Documentation Review for Production Line Approval.

March 2010 to September 2010 **AERNNOVA MEXICO**

Quality Inspector

- Review of FAI Documentation (First Article Inspection)
- Review of Quality Inspection Schematics for Aircraft Components (AutoCAD).

- Knowledge of Aerospace Tolerances and Standards.
- Interpretation of Aeronautical Structural Blueprints.

December 2006 to September 2008 **Grupo COSIELSA S.A. de C.V.**

Programming and Control Coordinator

- Power and Control Diagrams (AutoCAD).
- PLC's Programming (Siemens Step 7, Allen Bradley RS Logix, etc.).
- Displays and Touch Screens Programming (HMI, SCADA, LabView).
- Inverters Programming (Danfoss, Siemens, ABB, etc).
- Control Devices (ON/OFF, PID) and Monitoring via Internet (LABView, OPC Servers, etc.).
- Control and Monitoring Networks Projects (Buildings, Hotels, Industry).

July 2006 to December 2006 **Transmisiones y Equipos Mecánicos S.A. de C.V. (TREMEC)**

Internship

- Implementation of Error Detection Systems in the Automotive Transmission Assembly
- Design and Implementation of Poka-Yoke Automated Devices.
- Participation in a Continuous Improvement Team (KAISEN).

Training

- **ASI Controls Regional Training.** August 2007

  Baton Rouge, Louisiana USA Course Length: 30 hours

- **ASI Controls Essential Training.** July 2007

  Pleasanton, California USA Course Length: 50 hours

Achievements

- Development, design and programming of the measurement and data acquisition system with National Instruments hardware and software for the first Quality Assurance Laboratory in ELECTROLUX Argentina (PXIe-1075, LabVIEW 2013).
- Development, design and programming of the first Measurement and Data Acquisition system with Yokogawa hardware and National Instruments software for the Research and Development Laboratory in ELECTROLUX Argentina (Yokogawa DX200,Yokogawa MW100, Janitza, LabVIEW 2013, NI OPC Servers 2013)
- Development and design of the electronic/electrical remote and fixed systems of the first Mining Mobile Band Conveyor System in Mexico.

	• Recognition by the Clemson University and West Virginia University for the successful participation in the event "International Outreach Program in Mexico". • Design, development and implementation of control equipment for the pumping system of air conditioning in the International Terminal Airport Cancún, Quintana Roo, México. • Design, development and implementation of control equipment for water pumping systems for hotels: RIU Los Cabos, RIU Cancún, RIU Vallarta, RIU Miami, RIU Bahamas, RIU Jamaica (Ocho Ríos), RIU Aruba, RIU Dominican Republic, City Express Reforma, City Express Cd. Juárez and City Express Monterrey. • Design, development and implementation of the cooling towers control panel for the ELECTROLUX Company in Cd. Juárez, Chihuahua México. • Design, development and implementation of the control and monitoring via internet fire and water pumping system of the St. Regis Hotel & Residences, México, D.F. • First best academy performance in my graduating class.