

PACIV

The leading Control Systems, Instrumentation, Commissioning & Qualification and Computer System Validation firm in Puerto Rico with over 10 years of experienced servicing the Pharmaceutical, Biotechnology and Medical Device industries.

We have over 125 factory certified engineers, technicians and specialist with knowledge and hands-on experience in our core services.

PACIV can minimize time to market by 20-30%, reduce costs by 40% through scale economies, and meet deadlines reliably by:

- Consultancy and execution of Risk-based Management Process following ISPE, ICH 9 and ASTM guidelines
- Combination of knowledge and hands-on experience on control systems and instrumentation allows for the most effective "right-sized" Commissioning and Qualification (C&Q) and Computer System Validation (CSV) efforts
- Leveraging Commission efforts during the Computer System Qualification and Validation phases
- Global replication through "glocal" services

Board of Directors:

Jorge L. Rodriguez, PE – President & CEO

rodriguezj@paciv.com

Jose R. Calderon – VP of Operations (PR)

calderonj@paciv.com

Samuel Estrada, PE – VP of Operations (PR)

estradas@paciv.com

Rick Straw – VP of Operations (US)

straw@paciv.com

Wayne Snelgrove, PE – VP of Operations (UK)

snelgrove@paciv.com

Adrienne Muniz – Comptroller

muniza@paciv.com

Luis A. Melendez – Director of Compliance

melendezl@paciv.com

Shawn Perkins, PE – Director of Engineering

perkinss@paciv.com

Recognized as:

- Eli Lilly & Company Global Supplier of the Year
- One of the "20 Best Employers in Puerto Rico"
- Harvard Business School Case Study – Supply Chain, International Entrepreneurship

Our Services include:

- Automation Project Management
- Control System Design, Configuration and Installation
- DeltaV, Foxboro I/A, Allen Bradley, Control Logix, iFIX, RSView/Batch, Apogee, Metasys
- Data Acquisition using SCADA (iFix, RSView/RSBatch, Wonderware)
- Alarm Management System Configuration (e.g. Tips)
- Instrumentation Services: Procurement, Installation and Calibration (including FOUNDATION Fieldbus and Devicenet)
- Risk-Based Management Process using ISPE, ICH 9 and ASTM Guidelines
- Computer System Validation (including Platform Qualification) as per complete SDLC
- Equipment/Control System Qualification & Commissioning

Recent Projects are:

- Lilly Del Caribe, Inc. – PR05 Biotech Plant Automation Support, all Commissioning and CSV for Delta V Control System and AB PLC Packaged Systems
- Johnson & Johnson Janssen – Waste Water Treatment Plant Control System/HMI design, configuration, installation and start-up
- Wyeth – Foxboro I/A DCS Upgrade CSV and Automation Support
- Eli Lilly & Co. - Utilities Area control system/SCADA design, configuration, commissioning, and CSV
- Roche – Facilities Expansion Project Qualification and CSV
- Astra Zeneca – ER/ES Remediation for Dry Product Manufacturing Facilities
- Becton Dickinson – Commissioning and CSV for the facility systems of the new BD Bio Facility

Our projects have ranged from \$5,000 to \$500+ Million including lump sum and T&M.

Our Clients:

- | | |
|---------------------------|-------------------------|
| ● Abbott Laboratories | ● Genentech |
| ● Amgen | ● Johnson & Johnson |
| ● AstraZeneca * | ● Paytheon |
| ● Becton, Dickinson & Co. | ● Pfizer |
| ● Bristol-Myers Squibb | ● Procter & Gamble |
| ● Boston Scientific | ● Roche Diagnostics * |
| ● Cook Pharmica | ● Schering Plough |
| ● Eli Lilly & Co. * | ● Veolia |
| ● GSK | ● Wyeth Pharmaceuticals |

* - Preferred Vendor Status and Master Service Agreement Holder

Members of:

- ISPE, Puerto Rico Supplier Development Council, Indiana Business Development Council (MBE)



www.paciv.com

Puerto Rico

PACIV, Inc.
Tel. 787.721.5290
Fax. 787.721.5938
Jorge L. Rodriguez, PE
President & CEO

United States

PACIV-USA, LLC
Tel. 317.423.8819
Fax. 317.423.8968
Rick Straw
Vice-President of Operations US

Europe

PACIV-Europe, Ltd.
Tel. 44 (0)1252 819896
Fax. 44(0)1252.812032
Wayne Snelgrove
Vice-President of Operations Europe