CHRISTIAN PÉREZ PÉREZ

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QUALIFICATIONS PROFILE

Electrical Engineer with more than 10 years of experience in the bio-pharmaceutical industry, specializing in manufacturing operations, validation, and performance qualifications. Demonstrated expertise in GMP compliance, FDA regulations, and aseptic vial/syringe filling processes. Skilled in automation, deep learning, image processing, and software development. Bilingual (English/Spanish) and recognized for strong problem-solving capabilities, excellent communication, and a track record of optimizing complex systems in regulated environments.

- Deep Learning
- Isolators
- ♦ Unity 3D
- Troubleshooting & Data Analysis
- PLC/HMI programming-Rockwell
- Electrical Diagrams & P&ID
- CDOCS-Owner role
- ♦ Python, MATLAB, R, C#, Java,
 VBA
- Modern & Classical Control design
- Image Processing
- xGMP, CAPA, Change Control & Deviation Handling

PROFESSIONAL BACKGROUND

AMGEN, Juncos, PR (August 2014 – Present)

- Sr. Scientist (July 2023 Present)
 - Technical lead for the AML-14 Crimp Vision Crimp inspection proyect.
 - Create and implemented and algorithm that uses point cloud data (3D information) to detect defective crimping in vials.
 - Developed an image augmentation software for glass containers using Python, leveraging inpainting and Poisson image blending techniques.
 - Leading the process development for the Recipe Development Unit (RDU) system in syringe Automatic Vision Inspection.

Scientists (September 2022 – July 2023)

- Optimized Automatic Vision Inspection (AML-1 Line 628).
 - Implemented classic image processing tools and tested deep learning classification models.
- Sr. Engineer (System Owner) (April 2020 September 2022)
 - AML-14 Vial Filling Line System Owner:
 - Developed VBA automation tools for parameter, alarm, and event counting.
 - AML-14 Syringe Filling Line System Owner:
 - $_{\odot}$ $\,$ Developed VBA automation tools for parameter, alarm, and event counting.
 - \circ $\,$ Created an E-Beam parameter search tool to enhance process efficiency.
 - \circ Troubleshoot equipment related issues.

Engineer (System Owner) (July 2016 - April 2020)

- Change Control Owner for:
 - $_{\odot}$ $\,$ New Isolator Glove Integrity Testers (GIT) for Vials & Syringe lines.
 - Solo VPE upgrade
 - Decontamination Cycle optimization
 - Created VBA program to capture data form PI and obtain Component Prep equipment efficiency:
 - Success rates calculation
 - $\circ \quad \text{Equipment uptime calculation} \\$
 - Supported Part Washer Overall Equipment Effectiveness OEE tool creation.
 - System Owner for AML14's Analytical Lab & Syringe Filling Processes.
 - Supported System Owner activities for component prep.
 - Deviation & CAPA Owner, responsible for documentation and compliance.
 - Solo VPE periodic review
- Associate Tech Engineering (August 2014 July 2016)
 - Provided troubleshooting support for manufacturing systems.
 - Participated in DiD and FMEA for a new filtration skid system.
 - Participated in the new filtration skid Functional tests (FT).
 - SME for Filtration Skid, E-beam, and Material Transfer Isolator (MTI).

Christian O. Pérez Pérez

Mobile Game Development

Independent Game Developer (Self Learned)

- Completely develop a voice reacting game SensiTori
 - C# programing
 - Unity for game development

Invision Engineering Corp. at AMGEN Juncos, PR (September 2013 – August 2014)

Automation Specialist

- Supported startup operations for AML-14 new filling facility.
- Parameter adjustments as need for equipment and processes.

University of Puerto Rico, Mayagüez, PR

Cervecera de PR

 Level and quality control of Evaporative Condensers with PLC and HMI implementation, for the Capstone project

Other projects:

- Water Level control using Labview.
- Matlab & Simulink Control of a Linear Flexible Joint Cart Plus Single Inverted Pendulum using three methods: Pole Placement, Observer Implementation, and State Variable Addition.
- Homography Matrix Transformation for License Plate Recognition (Image Processing with MATLAB).

EDUCATION

MEEE in Electrical Engineering with emphasis in Digital Signal Processing Polytechnic University of Puerto Rico- (June 2024)

MECE in Computer Engineering with emphasis in Software Engineering (2023) Polytechnic University of Puerto Rico-

Bachelor's Degree in Electrical Engineering with emphasis in Control Systems (2013) University of Puerto Rico, Mayagüez, PR