

## **Luis Dario Patron Corral**

Technical Support Engineer | Electronics & Software

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### **Professional Summary**

Highly skilled Technical Support Engineer with hands-on experience in the LED and lighting industry. Proven track record of diagnosing and resolving complex hardware, firmware, and software issues across high-performance display systems. Strong communicator who bridges technical teams and non-technical stakeholders to drive product success. Adept in documentation, on-site and remote support, and working under pressure. Passionate about applying this experience to new technology areas such as electronics, IoT, SaaS, and industrial systems.

### **Professional Experience**

#### **Technical Support Engineer**

AOTO Electronics, Irvine, CA — 2023–Present

- Provide advanced technical support for LED display systems, including AOTO controllers, Brompton, Megapixel, and Novastar processors.
- Troubleshoot complex hardware and signal chain issues across controllers, receiving cards, video processors, and LED cabinets.
- Perform on-site installations, calibrations, and emergency repairs for high-profile clients and live events.
- Collaborate with cross-functional teams (engineering, product, sales) to escalate critical issues, contribute to product improvements, and ensure optimal system performance.
- Create and maintain technical documentation, user guides, and internal knowledge base articles.
- Deliver training sessions and technical walkthroughs for end-users, clients, and internal staff.
- Manage customer incidents via support ticketing systems, ensuring SLAs are met and issues are tracked and resolved efficiently.

#### **Electronics & Software Engineer**

Nanoscience and Nanotechnology Center, Ensenada, B.C. — 2020–2022

- Designed and implemented a control system for micro/nano robot applications using STM32F746G and Sensoray 826 data acquisition card.
- Developed a graphical user interface for real-time robot monitoring and control.
- Created control algorithms to manipulate magnetic fields using the Allegro ALS31300.

- Integrated Sensoray DAQ system with LabView and STM32 microcontroller.
- Developed Python scripts for task automation and system testing.
- Conducted extensive troubleshooting, debugging, and system optimization.

## **Education**

Bachelor of Science in Electronics Engineering

Autonomous University of Baja California — Ensenada, B.C.

2018 – 2022

## **Technical Skills**

### **Software & Programming**

Python (OOP, Flask, Django), C/C++, Bash, Shell, LabView

Web Development: HTML, CSS, JavaScript

Databases: SQL, MySQL

Version Control & Tools: Git, Jira, Trello, Slack

Linux/Embedded Linux environments

Text editors: Neovim (custom setups)

### **Embedded Systems & Hardware**

STM32 microcontrollers, Sensoray 826

Protocols: UART, SPI, I2C, CAN

Real-time systems, sensor integration

PCB design and troubleshooting

Use of a multimeter, oscilloscope, and spectrum analyzer

### **Display & LED Systems**

AOTO (2K/4K, X4), Megapixel, Brompton, Novastar controllers

LED display system architecture and signal chain diagnostics

On-site deployment and calibration of LED panels

### **Languages**

Bilingual: Spanish and English