




# DIEGO AULET-LEON

Engineering leader bridging software, hardware, and automation to solve complex challenges.

 [linkedin.com/in/diego-aulet-leon](https://www.linkedin.com/in/diego-aulet-leon)  [github.com/dauletle](https://github.com/dauletle)  [dauletleon.wordpress.com](https://dauletleon.wordpress.com)

## Education

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### California State University, Long Beach

Long Beach, CA

*Master of Science in Computer Engineering*

*Graduated Dec. 2020*

- **Selected Coursework:** Topic Distributed Computing, Machine Learning, Artificial Intelligence, Hardware Software Codesign, Advanced Software Engineering, Advanced Computer Architecture, Mobile Application Development (Android)
- **Awards:** Entered Tau Beta Pi Theta Chapter and IEEE-HKN (Eta Kappa Nu) Chapter

### University of California, Santa Cruz

Santa Cruz, CA

*Bachelor of Science in Computer Engineering, Minor in Electrical Engineering*

*Graduated June 2012*

- **Selected Coursework:** Analog Electronics, Mechatronics, Embedded Systems, RF Hardware Design, Feedback Control Systems, Logic Design, Sensors and Sensing Technology, Digital Design with Verilog, Power Conservation and Control
- **Awards:** Elected as Chair of the UCSC IEEE Student Branch

## Experience

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### Moog Inc.

Torrance, CA

*Software Engineer, Test Equipment & Control Accounts Manager*

*Aug. 2021 – Present*

- Develop software for automated test stands to test flight-critical actuation systems using Python, NI LabView, DSpace ControlDesk, and Linux driver development in C.
- Lead project planning, execution, and risk management while overseeing small teams on software development tasks such as low-level design, coding, and testing.
- Manage project costs through earned value reporting, track scope changes, and ensure timely software delivery by coordinating critical dependencies in the project's Master Schedule.

### Tritium Technologies

Torrance, CA

*Support Engineering Manager*

*July 2020 – July 2021*

- Built and led a customer support team providing engineering support for EV chargers across the Americas.
- Analyzed data to drive product improvements, implemented change management initiatives, and optimized business processes.
- Ensured service and commissioning timelines met customer and contractual requirements, coordinating field and remote support operations.

*Lead Support Engineer*

*Nov. 2017 – July 2020*

- Provided engineering support for EV DC Fast Chargers, leveraging expertise in power electronics, networking, Debian Linux, Python, MQTT, C++, and CAN Bus.
- Diagnosed and resolved charger issues by collaborating with support teams, test engineers, electricians, and software developers.
- Developed troubleshooting tools and provided technical training to enhance service efficiency.

### Bonneville Power Administration

Vancouver, WA

*Electrical Engineer*

*Jan. 2015 – Nov. 2017*

- Provided on-site project management and testing for high-voltage transmission facilities across the Northwest.
- Designed and implemented electrical schematic revisions to optimize transmission system operations.
- Developed Python and C software tools to streamline field testing and improve efficiency.

### Clover Technologies Group

Van Nuys, CA

*Hardware Engineer*

*Feb. 2013 – Dec. 2014*

- Designed and developed digital circuits and serial memory device protocols for aftermarket laser toner and inkjet cartridges.
- Conducted system-level reverse engineering and implemented schematic capture for circuit design.
- Assisted in firmware development and hardware validation to enhance product performance on ARM and 32-bit microcontrollers in Embedded C.

## Projects

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**Actuation Controller Test Executive** | *Python, National Instruments DAQ, HIL Testing* Aug. 2021 – Present

- Developed a test application using wxPython in Python to enable multiple instruments to interact with an actuator control unit (ACU).
- Implemented automation for various test types using oscilloscopes, multimeters, and National Instruments DAQ tools.
- Designed the software to support serial communication with the ACU and be configurable for multiple users.

**OffsetLX Calibration Tool** | *Python, Qt, SEL-2411, Serial Communication, TCP/IP, Git* May 2016 – Nov. 2017

- Designed a Python application using the Qt library to calibrate SEL-2411 devices for accurate zero values.
- Implemented serial and TCP/IP communication to interact with the SEL-2411 and process input data.
- Provided a user-friendly interface for testing engineers to perform calibration efficiently.

**IS5000 EEPROM Chip Emulator** | *SPI, 32-bit Microcontroller, Embedded C, PCB Design* Feb. 2013 – Dec. 2014

- Designed a custom circuit using Eagle and a Texas Instruments MSP430 microcontroller to emulate an SPI memory device.
- Programmed the MSP430 in C to replicate EEPROM functionality for the IS5000 postal printer.
- Developed and tested the emulator to ensure seamless integration with existing hardware.

## Specialized Skills

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**Programming Languages:** Python, C, Java, C#, C++, MySQL, Swift, JavaScript, HTML/CSS

**Frameworks:** React, Flask, WordPress, FastAPI, Qt

**Developer Tools:** Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, LabView, Git, Android Studio, XCode, Xilinx ISE

**Libraries:** pandas, NumPy, Matplotlib, Scikit, Pytorch, TensorFlow, OpenCV, wxPython

**Management Tools:** Microsoft Project, Microsoft Visio, Google Analytics, Tableau, JIRA/Confluence, Balsamiq Wireframes, Miro, Agile/Scrum, InVision, Microsoft Power Bi

**Communication Protocols:** TCP/IP, PLC, Wi-Fi, Bluetooth, USART, 1-wire, USB, SPI, CAN, I<sup>2</sup>C, OCPP

**Hardware:** AMD (Xilinx) Zybo FPGA, ARM/16-bit/8-bit CPU Architectures, Atmel, Texas Instruments, PIC (Microchip), Freescale

## Certifications & Affiliated Professional Organizations

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**Engineer-in-Training (EIT)** California BPELSG

**Product Management Bootcamp Certificate** UCLA Extension