

DAVID ARTHURIAN

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EXPERIENCE

Blue Origin

June 2026 - Present

Electrical Engineer II

- Own Blue Ring spacecraft power budgets and EPS architecture, supporting vehicle-level power allocation, hardware trades, and integration.
- Lead next-generation solar array architecture and supplier trades targeting 80% lower cost and 4× higher voltage (100V → 400V) for future vehicles.
- Develop, debug, and execute HIL test scripts for power converters, charge control, payload power interfaces, telemetry, and vehicle power-up sequences.
- Execute power electronics I&T and qualification, including TVAC, ATPs, thermal cycling, power cycling, anomaly investigation, and hardware troubleshooting.
- Integrate EPS hardware, firmware, and flight software through command/telemetry, event thresholds, HIL validation, OpenC3, Python, and Git workflows.
- Coordinate with suppliers and subcontractors on power hardware qualification, failure resolution, design changes, and Vehicle 1 flight integration.

Northrop Grumman

May 2025 - June 2026

Electrical Engineer I

- Serve as Cognizant Engineer (CogE) for the Electrical Power Subsystem (EPS) on NASA's HALO spacecraft, leading integration, verification, anomaly resolution, and technical execution of mission-critical power distribution hardware.
- Support spacecraft EPS development through power budgets, EBA, battery sizing, solar array sizing, requirements verification, and architecture trades across NASA and commercial programs.
- Manage and coordinate spacecraft battery laboratory activities to support battery characterization, test execution, troubleshooting, integration, and verification across multiple programs.
- Collaborate with systems, software, mechanical, manufacturing, integration and test, reliability, and supplier teams to drive requirements closure, resolve hardware issues, and support spacecraft integration activities.
- Lead failure investigations, root cause analysis efforts, corrective actions, and technical reviews to reduce integration risk and improve spacecraft hardware reliability.

Sempra Energy

June 2023 - May 2025

Systems Engineer I

- Operated within an engineering team to design and optimize Southern California CNG/LNG distribution systems for a large-scale critical infrastructure network serving millions of residential, commercial, and industrial customers.
- Developed real-time monitoring and analytics tools using SCADA, GIS, SAP, and SQL to enhance system performance.
- Led instrumentation and control system projects, integrating hardware and software for high-reliability gas distribution.
- Conducted SQL-based data modeling to identify system improvements that increased distribution efficiency by 50%.
- Compiled data, created dashboards for emergency scenarios, and provided on-call support for regional engineers.
- Designed and executed six-figure capital projects, achieving 25% cost savings and delivery ahead of schedule.

SKILLS

Python, MATLAB, C++, Verilog, VHDL, LTSpice, OrCAD, Altium, PCB Design, Simulink, Oscilloscopes, Power Analyzers, IBM DOORS, Cameo, Creo, Windchill, Git, SCADA, VSCoDe, SAP

EDUCATION

Georgia Institute of Technology

M.S. Electrical & Computer Engineering | Expected Fall 2027

University of California, Los Angeles

B.S. Electrical Engineering | GPA 3.75 | IEEE Member, HKN Society

Engineer-in-Training (EIT), Electrical Engineering

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