

Anthony Arroyo

Electrical Engineer

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Chicago, IL

PROFESSIONAL SUMMARY

Electrical Engineer with 10+ years of experience in electrical safety testing, production test system deployment, and design verification & validation for regulated products. Lead Validation Engineer with expertise in electrical safety testing under IEC, UL and ISO standards. Deploying test systems across medical, telematic, and commercial manufacturing environments. Knowledge in developing test strategies, authoring SOPs and technical documentation; serving as a subject matter expert bridging R&D and Production, while providing hands-on and classroom style training for manufacturing and quality teams.

CORE COMPETENCIES

▶ DV/PV Testing – NPD/NPI validation ▶ Hipot, Leakage Current & Ground Bond Test ▶ IEC60601-1/60990 Touch current testing ▶ Process Validation (IQ/OQ/PQ) ▶ PFMEA & Risk Management	▶ ISO 17025 / ISO 9001 QMS ▶ Environmental testing ▶ Failure Analysis & Root Cause Investigation ▶ Technical Training & SOP Development ▶ Full-Stack Software Development (Next.js, MongoDB)
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PROFESSIONAL EXPERIENCE

Lead Validation Engineer | *Morey Corporation -Telematics devices/Contract Manufacturer* Mar 2026 – Present
Woodridge, IL

- Lead DV/PV test programs for NPD and NPI telematics devices. Including MIO, Bluetooth, GPS, Ethernet, LTE and WiFi technology.
- Execute environmental stress qualification testing per industry standards, specific to contract manufacturing clients.
- Configure and operate niche test equipment and data collection tools to create executive summary reports satisfying stakeholder expectations.
- Coordinate with 3rd party certification labs, witness-testing, assess any failures, implement corrective actions.
- Manage lab equipment, calibration status, resource availability and develop cost-benefit analysis for new equipment procurement vs rental.

Senior Application Engineer | *IKONIX USA (Associated Research) Electrical Testing Equipment* Sep 2015 – Mar 2026
Lake Forest, IL

- Led technical deployment, validation, and commissioning of production-line electrical safety test systems — hipot, leakage current, ground bond, and functional safety — across various standards including medical devices, industrial, and commercial manufacturers operating under IEC, UL and CSA standards.
- Performed on-site process audits, test system qualification, and end-of-line production test verification at regulated manufacturing facilities; served as trusted technical resource for compliance and audit readiness.
- Acted as primary technical liaison between customers, engineering, and manufacturing to diagnose and resolve hardware and software defects in safety-critical test systems — including replication of field bugs and coordinated resolution with engineering.
- Authored and maintained instrument manuals, SOPs, calibration procedures, and training materials used by production, service, and calibration teams across customer organizations.
- Delivered classroom-style and on-site technical training to engineering, quality, and manufacturing audiences on IEC/UL/CSA electrical safety standards, test methodology, and test system operation.
- Designed and deployed a cloud-based LMS for electrical safety training and certification, using Next.js, MongoDB, and modern full-stack architecture.

Hazardous Locations Laboratory Technician | *Underwriters Laboratories* Jun 2013 – Jun 2015

- Executed electrical, environmental, and IP safety testing for hazardous-location and explosion-rated electrical equipment under IEC, UL, and CSA standards.
- Collected and reported test data for customer certification and compliance projects in a highly regulated laboratory environment with strict procedural and documentation controls.

- Gained hands-on experience with niche testing apparatus, compliance protocols, and high-risk product evaluation in a structured quality system.

Founder / Owner | *ARoyals LLC*

2008 – 2012

Operated a small retail business (store front); managed staff, vendor relationships (Nike, Adidas, Puma), inventory, and full business operations — building leadership and project management skills applicable to cross-functional technical execution.

EDUCATION & CREDENTIALS

B.S. Electrical Engineering

Full Stack Web Development Certification

ASQ Certified Quality Engineer – Candidate

University of Illinois at Chicago | May 2015

Northwestern University –SPS| May 2020

Test scheduled for December 2026

Other Professional Skills

- LLM AI experience
- Dale Carnegie Leadership Development Program
- IEEE Member — PSES 2018 Presenter, Medical Device Leakage Current
- Society of Hispanic Professional Engineers — Public Relations Chair
- Fluent in Spanish