Kyle Rietta

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Summary

Electrical Engineer with over 6 years of hands-on experience in research & development, product sustaining, quality and performance analysis, hardware testing, and new product development. Experienced in failure analysis, root-cause investigations, CAPA leadership, verification and validation, and test development. Strong background in electrical troubleshooting, product reliability, and cross-functional engineering collaboration.

Education

California State University - Northridge **Sept 2018 – May 2022**
Bachelor of Science, Electrical Engineering *Northridge, California*

Professional Experience

Boston Scientific - Neuromodulation & Urology **Aug 2026 - Present**
Electrical Engineer - Research & Development *Irvine, California*

- Conduct failure analysis on returned implantable neuromodulation devices and manufacturing dispositions through electrical, functional, and physical evaluations to identify potential failure mechanisms.
- Collaborate with the failure analysis team to develop, improve, and maintain complaint investigation strategies, test methods, workflows, and technical documentation to support consistent and effective failure analysis.
- Lead a cross-functional CAPA investigation, including root-cause analysis, battery performance studies, and development of test limits to support investigation conclusions and corrective actions.
- Develop manufacturing test strategies to identify premature battery depletion associated with excessive current consumption and abnormal battery voltage drop, helping prevent potential field failures.
- Support product verification and validation activities associated with acquisition integration by evaluating proposed engineering changes and ensuring applicable design and verification requirements are addressed.
- Coordinate engineering change activities across R&D and cross-functional teams, reviewing technical proposals and assessing verification, validation, and product requirements.

Abbott Laboratories - Cardiac Rhythm Management **Aug 2025 - Aug 2026**
Electrical Engineer - Quality & Product Performance *Sylmar, California*

- Conduct post-market quality & performance analysis on explanted medical devices including cutting-edge leadless pacemakers, transvenous pacemakers and implantable cardiac monitors.
- Perform electrical and functional evaluations to assess device behavior and identify potential failure mechanisms in returned products.
- Collaborate with global cross-functional teams including hardware engineering, software engineering, manufacturing, market surveillance, and customer support to review field performance data.
- Support root-cause investigations by correlating device analysis results with field reports, manufacturing history, and product design information.
- Prepare detailed technical reports summarizing analysis methods, observations, and conclusions for both customers and internal engineering and quality stakeholders.

Alcatel-Lucent Enterprise **Dec 2021 - Aug 2025**
Hardware Engineer *Thousand Oaks, California*

- Collaborate with a multidisciplinary and international team of engineers, business professionals, and FAEs from leading chip companies to ensure a cohesive approach to hardware development and deployment to a global market.
- Evaluate prototype products, ensuring design quality, integrity and functionality by performing rigorous test and validation processes and providing feedback for design modifications and improvements.
- Demonstrate excellent communication skills by effectively bridging the gap between international and interdepartmental team members, both technical and non-technical, through clear and concise documentation, regular updates, and proactive engagement.

Universal Studios Hollywood - Technical Services **Sept 2017 – Jan 2019**
Controls Engineer Intern *Universal City, California*

- Led a project to facilitate a complete control system upgrade including show control and ride vehicle motion.

Technical Skills

Technical Tools: Oscilloscopes, TI Fusion Designer, Xpedition PCB, Lattice Diamond, PSpice/LTspice, Minitab, Altium PCB Designer, Specialized Test Fixtures
Languages: Python, LaTeX, MATLAB
Software: Oracle Agile PLM, Arena Empower PLM, Windchill PLM, YouTrack PM, Microsoft Excel, Word, PowerPoint, Outlook, Teams, Zoom, EPIQ, Copilot AI/Agents, ChatGPT AI