

Kendrick Lewis

Senior Electro-Mechanical Engineer

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SUMMARY

Accomplished Senior Electro-Mechanical Engineer with over seven years in developing and enhancing military and aerospace products. Expertise in designing, testing, and evaluating complex electro-mechanical systems; outstanding project management skills drive positive results. Proficient in tools like MATLAB, LTSpice, and Altium, securing seamless integration of innovative designs into existing devices. Known for creating technical documentation that streamlines processes and enhances collaboration across teams. A dynamic leader committed to mentoring junior engineers, fostering a productive and growth-oriented work environment. Focused on delivering exceptional engineering solutions, prioritizing product reliability, and integrating feedback from stakeholders.

EXPERIENCE

Senior Electro-Mechanical Engineer

Engineering Solutions Corp. 📅 January 2020 – Present 📍 Schaumburg, IL

Leading the design of advanced electro-mechanical prototypes tailored for military applications, ensuring adherence to high standards. Manage multiple projects throughout their lifecycle while instilling best practices in team dynamics. Engaging with stakeholders, deliver clear technical documentation and assembly guides improving project outcomes.

- Direct design and development initiatives, enhancing system reliability by effectively implementing new standards.
- Facilitate testing and troubleshooting strategies, significantly reducing product failure rates through comprehensive analysis.
- Conduct regular technical meetings, aligning past performance with future goals across all teams.
- Generate detailed technical documents, including procedures that increase the efficiency of project transitions.
- Manage budget adherence and project timelines while mentoring junior engineers for professional advancement.
- Drive collaborations, eliciting feedback that directly influences product enhancements and usability.

Electro-Mechanical Engineer

Tech Innovations LLC 📅 June 2017 – December 2019 📍 Naperville, IL

Focused on developing accurate schematics and conducting testing of cutting-edge electro-mechanical systems within a collaborative environment. Designed functionalities that facilitate product launch success. Supported communication between departments, fostering improvement based on client insights.

- Engineered various electro-mechanical integrations leading to three successful product introductions on market.
- Collaborated in drawing up rigorous designs using Altium, advancing process accuracy and minimizing errors.
- Evaluated prototype performances comprehensively, identifying faults and recommending practical modifications.
- Contributed expertise in safety regulations consistently, ensuring compliance during lab phases.
- Prepared engaging technical proposals to enhance company competitiveness and win bids.
- Actively participated in cross-functional teams addressing continuous product evolution from consumer feedback.

Junior Electro-Mechanical Engineer

Precision Engineering Inc. 📅 August 2015 – May 2017 📍 Elgin, IL

Played a pivotal role in circuit layout designs while deepening knowledge of electro-mechanical technologies. Developed essential testing mechanisms under senior oversight, building valid frameworks for electrical designs. Fostered group contributions while learning vital aspects of technical documentation.

- Supported crafting detailed circuit layouts which enhanced overall circuit functionality in product range.
- Participated collaboratively in test-planning efforts, ensuring thorough examination of operational specifications.
- Utilized MATLAB simulations for assessing behavior of circuit operations under diverse conditions.
- Aided in troubleshooting electronics, honing critical problem-solving capabilities.
- Joined experienced engineers to produce polished documentation and lucid technical presentations.
- Engaged actively with robust lab equipment, accumulating substantive technical experience and hands-on practice.

LEADERSHIP & AWARDS

- Engineer of the Year Award, 2022 - Recognized for contributions to safety improvements in product designs.
- Team Leadership Award, 2021 - Honored for leading team efforts that resulted in excellent project completion times.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Illinois 🎓 GPA: 3.6 📅 2015 📍 Champaign, IL

Coursework: Circuit Theory, Control Systems, Embedded Systems, Power Electronics

CERTIFICATIONS

- Certified Professional Engineer (PE) 📅 2020
- Project Management Professional (PMP) 📅 2021

TECHNICAL SKILLS

- **Modeling Tools:** LTSpice, MATLAB/Simulink
- **Design Software:** Altium, PADS
- **Testing Equipment:** Oscilloscope, Function Generator, Multimeter
- **Documentation Standards:** ISO 9001, AS9100
- **Project Management Methodology:** Agile, Waterfall, Scrum
- **Safety Regulations:** OSHA, IPC-A-610, IEEE 802
- **Research Development:** Prototype Testing, Quality Assurance, System Integration
- **Software Proficiency:** AutoCAD, LabVIEW, SolidWorks
- **Collaboration Tools:** Microsoft Teams, Slack, Zoom
- **Analytical Methods:** Root Cause Analysis, Risk Assessment, FMEA

SKILLS

- Electro-Mechanical Design
- Circuit Design & Analysis
- Project Management
- MATLAB & LTSpice
- Technical Documentation
- Team Leadership

PROFESSIONAL AFFILIATIONS

- Society of Mechanical Engineers - Active Member engaged in community outreach programs.
- Institute of Electrical and Electronic Engineers (IEEE) - Participating member contributing to local events.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST