
David Kim

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Results-Driven Electrical Engineer

A quality-focused electrical engineer and skilled troubleshooter concentrated on identifying, isolating, and resolving complex product malfunctions. Excel at interpreting and proofreading technical drawings and schematics, verifying specifications and ensuring quality. Evaluate electrical systems and products by conducting research, applying principles of mechanics and materials, designing protocols, analyzing requirements, establishing priorities, and taking corrective actions. Stay abreast of trends in the industry to place the company at the forefront of technology, and competently enhance productivity and profitability.

Areas of Experience

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|-------------------------------------|---------------------------------------|-------------------------------------|
| • Electrical Engineering | • PCB design | • Project Management |
| • Hardware/Software Testing | • Technical Troubleshooting | • Root Case Analysis |
| • Marketing Management | • New Product Development | • Testing & Commissioning |
| • Quality Assurance/Quality Control | • Cross-Functional Team Collaboration | • Staff Training & Team Development |
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Core Skills and Competencies

- Superior evaluative, analytical, and troubleshooting skills
 - Team oriented and strong individual contributor
 - Comfortable in the agile, fast-paced work environment
 - Strong communication, interpersonal, and time-management skills
 - Special interest in the automotive industry
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Education and Certification

Bachelor of Science (BS) in Electrical Engineering

Georgia Institute of Technology, Atlanta, GA

Professional Experience

Senior Manufacturing Engineer

N2 Imaging Systems

2020-Present

Irvine, CA

- Provide support of thermal and night vision products in production, including activities such as troubleshooting and characterizing systemic failures, maintaining product documentation, and implementing manufacturability improvements.
- Develop and maintain product process documentation, such as product assembly procedures, product test/calibration/alignment procedures, assembly and test checklists, standard operating procedures, etc.
- Support implementation and maintenance of the manufacturing line and equipment, such as specification and selection of basic test and assembly equipment, developing and implementing equipment maintenance and calibration procedures, repairing and maintaining assembly, burn-in and test equipment.
- Develop fixtures and tooling to aid in the assembly and test of products.
- Review field and factory failures, to identify common failure modes and issues of a systemic nature. Characterize failures and resolve recurring problems through mistake-proofing.
- Identify areas for improved product manufacturability, reduced product cost, or improved product reliability.
- Work with suppliers to correct problems or initiate improvements in accordance with manufacturability, cost and reliability improvement projects.

Electrical Manufacturing Engineer

Seek Thermal

2017-2020

Santa Barbara, CA

- Maintained and designed new production equipment used to build thermal imaging sensors.
- Core member of NPI and DfX process for various products.
- Managed calibration and preventative maintenance activities.
- Developed troubleshooting guides for production managers.
- Managed engineering issues for CM program with local and international vendors.
- Redesigned PCBAs and rewrote code for legacy production equipment.
- Continuous development of new manufacturing processes to increase yield and productivity.

- Benchmark competitive products to improve features and manufacturing methods.
- Test equipment, fixture design for sub-assembly verification.
- Manufacturing process optimization.

Senior Electrical Engineer

APA Industries

2012-2017

Simi Valley, CA

- Responsible for design, development, manufacture, and testing of automotive parts.
- Check data accuracy with corresponding engineers by using workflow process.
- Develop and implement manufacturing processes and product quality systems, including conducting research programs, and documentation of specifications and plans.
- Automate processes saving hundreds of person-hours each quarter while ensuring quality and precision go up as well.
- Enhance system and component potentials and assure product quality by designing and performing root-cause failure analysis to provide solutions.
- Supervise the activities of engineering staff and provide directions while growing their technical capabilities to accomplish project objectives.
- Accountable for projects' success, measured by the technical performance, development timelines, schedules, budgets, and cost adherence.

Electrical Engineer

Turbo Air Inc.

2010-2012

Long Beach, CA

- Envisaged and developed a wireless remote temperature monitoring system for commercial and industrial applications using the ZigBee wireless networking standard.
- Contributed to product development efforts, it included the development of electrical designs and selection of components.
- Collaborated with mechanical and software engineers, and provided inputs from specification to design, prototype, and manufacturing.
- Trained and developed engineering staff on methods and processes while growing their technical skills on the use of test equipment, tools, and schematics.

Electrical Engineer

Microrobot USA

2006-2010

Santa Clarita, CA

- Collaborated with Chinese and Korean divisions and planned, developed, and tested prototypes for self-navigating cleaning robots.
- Worked closely with developers leading bug-scrub meetings and driving bug-fix priority.
- Using microprocessors and stepper motors produced various educational robotic kits.
- Built and upheld cooperative working relationships with retail sellers to increase sales and long-term business growth.

Electrical Engineer

Mobilenet

2000-2006

Alpharetta, GA

- Provided vehicle level systems engineering through designing and testing of remote telemetry units (RTUs) with the built-in GPS-tracking system and satellite radios.
- Upgraded manufacturing processes by designing and modifying equipment, including switching power supplies, and custom in-house testing devices.
- Trained and mentored assembly technicians while growing their technical abilities.

Engineer

GT Motorsports Formula SAE

1995-2000

Atlanta, GA

- Designed and built all parts of cars, including chassis fabrication, CAD, prototyping, testing, and composite bodywork fabrication.
- Determined cause of failures to identify problem areas, and made recommendations for remedial action rapidly.

References Available Upon Request
