



JOB DESCRIPTION:

ELECTRICAL ENGINEER

Company	E-N-G Mobile Systems, LLC	Title	Designer - Electrical Engineer
Reports to	President	FLSA Classification	Exempt
Office Location	Fayetteville, NC	Hours of Work	7:00am – 4:00pm Monday through Friday

Company Description:

E-N-G is a leading U.S. manufacturer of specialized vehicles, headquartered in Concord, CA. We are proud to be an innovative producer of a diverse line of mobile technology products since 1977. E-N-G designs, develops, and builds specialized vehicles, such as Mobile Laboratories, Wireless Support Vehicles, RF Test Platforms, Broadcast Vehicles, with highly technical applications in the fields of public health and medical, advanced technology, incident command and control, and utilities services.

E-N-G collaborates closely with each client and end-user to fully understand their intended applications and specialized needs. Our ability to take sophisticated, complex ideas and translate them into easy-to-operate, high-quality mobile systems has led to our success where we have delivered more than 1,500 specialty vehicles to customers around the world.

We are currently seeking an experienced full-time hardworking, self-motivated Designer - Electrical Engineer to help in the continued advancement of E-N-G Mobile System's capabilities and product line. This job will be located in Fayetteville, NC. The individual must be reliable; goal oriented, and motivated to achieve improvement on a continuous basis.

For more information on E-N-G's products and services, please visit www.e-n-g.com.

Qualifications / Requirements:

- Thorough knowledge of AutoCAD, SolidWorks 3D, Microsoft Office, Microsoft Excel, and Adobe Acrobat.
- Ability to design AC & DC circuits, wiring diagrams and control panels for mobile vehicle applications.
- Experience in AC-DC control panel and circuitry design and load calculations.



- Experience in HVAC, air handling/filtration and PLC design for mobile vehicles is a plus.
- Excellent verbal and written communication skills.

. Significant experience interpreting specifications, inspecting electrical components during and after product installation, preferably relating to mobile labs and broadcast vehicles, and converting the data into an engineering package for the production shop.

- Experience with Project Management Software is a plus.
- A strong electrical background &/or aptitude is required.
- AAS or BS degree in electrical or electronics engineering and 5-years hands on experience is preferred.
- Experience in a production or upfitting environment preferred.

Primary Duties:

Document the customization of mobile vehicle projects from start to finish based upon job specifications, the sales quotation, and the sales order. Document electrical and mechanical diagrams utilizing SolidWorks &/or AutoCAD. Generate project bills of materials (BOM) using company's enterprise software. Manage individual projects to insure they are prioritized and completed to schedule. Provide hands on support to shop technicians as needed throughout the build phase of projects. Assist other engineers in technical aspects of projects.

Additional duties include (but are not limited to) the following:

- Communicate and interact with the Operations Manager, Production Manager, shop team and other departments as required to complete a project accurately and efficiently.
- Interface with Sales to ensure details of project are clarified. Assist Sales with all drawing packages required to support the bidding and quotation process.



- Follow documented procedures defined for the Engineering Department. Provide feedback and assistance to the Senior Project Engineer in the event procedural changes become necessary.
- Maintain, create, and improve engineering standards as necessary.
- Prepare engineering submittal packages for customer approval of project requirements prior to the start of production.
- Inspect completed vehicles to ensure the finished bill of materials matches the final product. Perform quality assurance checks throughout the production process to confirm that work matches the engineered design.
- Inspect large customer or E-N-G supplied materials to ensure that they meet requirements and/or order details.
- Assist Purchasing with researching and defining required materials, as necessary.
- Prepare “Quick Reference” guides and “Operating Manuals” as needed.
- Sustain a safe, clean and well-organized working environment and proper documentation processing and archiving.
- Work with customers either in person, over the phone or via e-mail to handle any changes and/or questions.

Please respond with “Designer - Electrical Engineer” in the subject line.

This job description in no way states or implies that these are the only duties to be performed by the employee incumbent in this position. The employee will be required to follow any other job-related instructions and to perform any other job-related duties requested by any person authorized to give instructions or assignments.

A review of this position has excluded the marginal functions of the position that are incidental to the performance of fundamental job duties. All duties and responsibilities listed above are essential job functions and requirements and are subject to possible modification to reasonably accommodate individuals with disabilities. To perform this job successfully, the incumbent will possess the skills, aptitudes, and abilities to perform each duty proficiently. The requirements listed in this document are the minimum levels of knowledge, skills, or abilities.

This document does not create an employment contract, implied or otherwise, other than an "at will" relationship.



All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, or disability status.

E-N-G Mobile Systems is an Equal Opportunity Employer: Female / Minority / Disability / Protected Veteran / Sexual Orientation / Gender Identity