



# Example of Electrical Lead Engineer Job Description

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Our growing company is looking for an electrical lead engineer. To join our growing team, please review the list of responsibilities and qualifications.

## Responsibilities for electrical lead engineer

- In conjunction with the Project engineer, initiate written change requests for job-hour budgets, schedules and construction commodity quantities, when required
- Assure assigned personnel have received discipline and project required training and provide project supervision and on-the-job training of assigned personnel
- A rock solid electrical engineer who understands system level power delivery and grounding (could be from vehicles, servers, or such complex systems), interconnect (electrical properties and reliability of wires, fuses, and connectors) and fundamentals of serial communication protocols (CAN, LIN, Ethernet, Bluetooth, DP)
- Support the engineers developing 2-d harness and wiring documentation to optimize topology/architecture for best cost/performance
- Understanding of design implications for automated assembly and installation of harness components into the vehicle
- Identify and resolve concerns, such as high voltage drop in circuits, high power dissipation, fault current related to fuse characteristics, fuse coordination, reliability concerns on detailed design features and drive the solution progress to remove these concerns through weekly tests, follow ups, upper management deep-dive reviews and cross functional team reviews
- Lead and review design engineering for projects and ensure compliance to standards, contract/product specification and standard engineering practices
- Define system operation functionalities for the applications with knowledge of power systems and understand interactions between renewables, energy

- Review and write technical specifications for sub-systems in line with product technical requirements and engineering
- Deliver quality designs as per project requirements and lead comprehensive testing and commissioning plans

## Qualifications for electrical lead engineer

- Candidates must have 12 years demonstrable experience in the design and all aspects of supervision and project administration of the electrical works related to large-scale projects within Middle East/ UAE in the consulting industry desirable preferred
- Site experience in basic design requirements, estimation, installation and all site activities related to all Electrical works for construction of large-scale building projects
- Basic knowledge of Software programming languages
- Familiar with regulatory agencies and certifying bodies (UL ULc, BSI, BRE, CSA )
- Knowledge of NRO space, ground, and launch systems
- Ability to lead and manage a project