

Senior Electrical Systems Engineer

Company Overview:

Ampaire is a tech startup based in California that is leading the charge in electric aviation. We're on a mission to provide the world with electric commercial flights that are affordable, quiet, and environmentally conscious. We're building the future of air travel, are reimagining the way people and their things fly. We are a practical and lean start-up that quickly iterates and learns, and this has allowed Ampaire to be among the first of the electric aviation companies to actually fly. We currently are flying what we believe to be the world's largest electrified aircraft by weight and capacity.

We're located at the intersection of aerospace and electric vehicles, right next to SpaceX and Tesla at Hawthorne Airport in Los Angeles County. As part of Starburst, the world's top aerospace accelerator, we have access to an international support network. We're proud to have won multiple international awards as a Top Aerospace Startup (Hello Tomorrow, Paris), Top Electrification Startup (New Mobility Challenge, Los Angeles), and IEEE N3XT Stars. We've also been featured in Aviation Week for our creative business approach and early success. Our talented team brings a diverse background from top institutions including: Caltech, Stanford, USC, Northrop Grumman, SpaceX, Virgin Orbit, and General Motors.

Job Description:

We're looking for a highly motivated Electrical System Engineer to join our team. You will define the requirements of all Electrical interfaces. Work with SW and ME team to ensure all aircraft components have clearly defined electrical interfaces. Ensure all interfaces and harnessing is designed and routed with EMI/EMC and other environmental conditions in mind. Manage our supplier/partner Interface requirements. Define and review their Qualification, Verification Test procedures and setup.

Required Qualifications:

- + BSEE

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- + 6+ years of increasing responsibilities
- + Aircraft electrical systems design to DO-160, DO-254 and ARP 4761
- + Familiarity with FAA certification requirements for electrical systems
- + Familiar with avionics design including controls, displays, human/machine interfaces, thermal management, cabling and connectors
- + Experience with defining processes, procedures and tools used for electrical system development, validation, integration, and verification
- + Familiarity with reliability analysis and methodologies such as MIL-HDBK-217 and RIAC217Plus
- + Review and approve FMEAs, FTAs, and FHA
- + Experience with full product development life cycle
- + Strong working knowledge of system integration and verification activities; including requirement validation reviews, test procedure development, automated test development and execution, and verification coverage analysis
- + Experience using requirements management software. Jama experience preferred
- + Experience with Hardware EMI/EMC and Lightning qualification per RTCA\DO-160
- + Support the development and conduct of informal and formal design reviews such as SRR, PDR, and CDR
- + Demonstrated strong strategic thinking and communication skills
- + Demonstrated strong decision-making skills
- + Demonstrated ability to effectively present information and respond to questions from groups of managers and general users
- + Demonstrated ability to work with all levels of the organization to achieve organizational objectives
- + Able to effectively present information and respond to questions from other departments
- + Able to actively participate in multi-disciplined functional teams
- + Able to communicate project status updates in a team environment
- + Proficient with Microsoft Word, Excel, Powerpoint, Matlab, requirements management tools, and project management applications
- + Able to effectively plan, organize and complete work with minimal supervision
- + Able to communicate complex technical information to other departments and functions
- + Highly motivated to provide project deliverables on time and be able to establish priorities when multiple deliverables coincide
- + Passionate about engineering product development process Improvement and assist In developing Standard Operating Procedures (SOP) for the Electrical department

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Desired Qualifications:

- + MSEE or higher in Electrical Engineering
- + Your experience includes working with or testing electric vehicles (of any kind)
- + Experience with Matlab Simulink
- + You have knowledge of batteries, electric machines specific power electronics
- + Projects oriented towards power and energy systems, including vehicles and their powertrain systems are highly desirable
- + You are experienced with embedded systems programming.
- + You are comfortable working with your hands, and are familiar with shop environments
- + You have a general understanding of thermal and mechanical systems

Benefits:

- + 401k
- + Health + Dental + Vision insurance
- + Aviation Enthusiast Benefit credit

Equal Opportunity Employer:

At Ampaire, we are committed to building a more inclusive ecosystem that integrates women, people of color, and other underrepresented groups into the cleantech sector and aerospace industry. We strongly encourage applications from qualified applicants and members of underrepresented groups.

Ampaire is an Equal Opportunity Employer; employment with Ampaire is governed on the basis of merit, competence and qualifications and will not be influenced in any manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability or any other legally protected status.