

**Rockwell Collins 11/03/08:**

## **Principal Electrical Engineer in the Head Down Display Center (HDDC)**

Perform assignments requiring use and application of electrical engineering or scientific development principles and techniques. Assignments usually consist of solving problems that are a part of a larger project or system. Position may require travel between Cedar Rapids and San Jose.

### **Position Requirements:**

Comprehensive detail electrical design knowledge of modern power processing techniques as applied to Avionic Display backlight and power supply electrical designs.

Experience in developing, capturing and reviewing system level power requirements and generation of corresponding power processing design solutions that meet established aircraft power/EMI requirements described under MIL-STD-704 , MIL-STD- 461, and DO160.

Ability to provide technical electrical design leadership and assume the roles and responsibilities of assigned Cost Account Manager Position.

Familiarity with EMC/EMI, thermal stress, and other environmental issues and their impact on design methodology.

Working knowledge of schematic entry and layout tools (Mentor Graphics EPD, Zuken CR5000).

A history of technical cost sensitive analog innovation.

Experience with low and medium power high frequency dc/dc and ac/dc power conversion design (topologies, components, control, and packaging). Apply your design expertise to provide recommendations on alternate architectures.

Familiarity with simulation tools.

Must be able to breadboard /assemble, debug and conduct engineering tests to verify design performance statically and dynamically.

Must be able to perform and document any load analysis, trade studies, module development, and control circuitry.

Candidate must be able to work closely with other members of the design team. The ideal candidate must be highly motivated, self directed and capable of working in a multi-disciplined team environment with a positive attitude and perform effectively. The candidate must have good oral and written communication skills for conveying technical approaches, trades, risks and to make recommendations through peer and customer reviews. The ideal candidate is a willing mentor, multitasks successfully, is adaptable to the changing demands of a competitive corporate environment. The engineer should be able to effectively convey any information to minimize surprises.

EMI filter circuit design is a plus.

Knowledge of analysis and simulation tools, ADS, Saber, and Mentor System Vision is a plus.

Understands and Follows RC-MAP and Technical Consistent Process (TCP) as they relate to the engineering and project leadership environments is a plus.

**Qualifications:**

Bachelor's Degree in applicable engineering or science field, and ten years of related experience, or, in the absence of a bachelor's degree, sixteen years of related experience. Bachelor's Degree in applicable engineering or science field and, fourteen years of related experience, or, in the absence of a Bachelor's degree, twenty years of related experience.

US Citizenship or Permanent Resident (Green Card) is required.

Rockwell Collins is an equal opportunity employer committed to building a diverse global culture that values teamwork, integrity, innovation, leadership, and an unwavering commitment to our customers.

**Contact Information:**

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