



JOB DESCRIPTION FORM

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Last Revised By: RDM.

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Rev: E

ECO#: XXXX

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JOB DESCRIPTION

JOB TITLE: Senior Development Engineer – Analog/Digital Hardware

DEPARTMENT: Research, Development and Engineering

REPORTS TO: Manager - RDE

POSITIONS SUPERVISED: None

Position Summary:

A senior level position. The position involves all aspects of analog and digital electronic design. Primary tasks include new product development and engineering support of existing products. Participates in every stage of product development from conceptualization to production release. Provides sustaining engineering support for active products throughout their life cycles.

Responsibilities:

- Research and generate ideas for the application of new and existing technology to fulfill product need as defined by Radian Marketing Department.
- Participate on interdisciplinary and interdepartmental teams to generate new product proposals.
- Participate on interdisciplinary and interdepartmental teams to develop product specifications from approved product proposals.
- Develop system architectures for products to meet product specifications.
- Derive detailed specification documents from higher level documents.
- Develop and maintain an attainable schedule that details key responsibilities, duties, achievable milestones and design reviews.
- Design, build, prototype, and analyze new and existing technology for functional and economic application in new and existing products.
- Design and produce documentation and test procedures suitable for product validation and product verification.
- Design and produce documentation and test procedures suitable for internal production and vendor outsourcing.
- Provide mentoring of more junior engineers.
- Continuing support of existing product as needed.

Education:

Minimum of Bachelor of Science of Electrical Engineering or equivalent degree or experience

Experience:

- Minimum of 10 years design in analog and digital hardware design
- Minimum of 5 years of product development
- Demonstrated history of successfully completed products

Knowledge of:

- New product development process.
- Analog Design including but not limited to operational amplifiers, amplifiers, and oscillators



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- Digital Design including but not limited to Boolean algebra, circuit minimization, A/D converters, D/A converters, Digital Signal Processing and Field Programmable Gate Arrays
- Feedback control theory
- Communications theory
- Classical and Compensated transformer design

Skilled at:

- Schematic Capture
- Circuit simulation
- Circuit Prototyping
- Circuit analysis and debug
- Circuit Layout
- Scheduling
- General Verbal and Written Communications
- Application Program skills required
 - Microsoft Project
 - Microsoft Word
 - Microsoft Excel
 - Spice or equivalent circuit simulation programs
- Application Program skills that would be a plus
 - Altium
 - Xilinx
 - VHDL
 - Solid Works
 - AutoCad
 - ANSI C & C++
 - Matlab
 - FEA

Desirable Qualifications:

Intimate knowledge of the Energy Metering Market and applications
Instrumentation design
Experience working in an ISO 9000 product development environment
Project Management Experience

Travel Domestically: Y X or N ____ Travel Internationally: Y ____ or N X

Physical Abilities: Circle one

N=Not Applicable (Activity is not applicable to this occupation)

O=Occasionally (Occupation requires this activity up to 33% of the time; 0-2.5+ hours per day)

F=Frequently (Occupation requires this activity from 33% to 66% of the time; 2.5-5.5+ hours per day)

C=Constantly (Occupation requires this activity more than 66% of the time; 5.5+ hours per day)

Physical Requirements:

Stand N O F C

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Sit	N	O	F	<input checked="" type="checkbox"/>
Walk	N	<input type="checkbox"/>	F	C
Handling/Fingering	N	O	<input type="checkbox"/>	C
Reach Outward	N	<input type="checkbox"/>	F	C
Reach Above Shoulder	N	<input type="checkbox"/>	F	C
Climb	N	<input type="checkbox"/>	F	C
Crawl	<input checked="" type="checkbox"/>	O	F	C
Squat or Kneel	N	<input type="checkbox"/>	F	C
Bend	N	<input type="checkbox"/>	F	C

Push/Pull

12 lbs. or less	N	<input type="checkbox"/>	F	C
13-25 lbs.	N	<input type="checkbox"/>	F	C
26-40 lbs.	<input checked="" type="checkbox"/>	O	F	C
41-100 lbs.	<input checked="" type="checkbox"/>	O	F	C

Lift/carry

10 lbs. or less	N	<input type="checkbox"/>	F	C
11-20 lbs.	N	<input type="checkbox"/>	F	C
21-50 lbs.	N	<input type="checkbox"/>	F	C
51-100 lbs.	N	<input type="checkbox"/>	F	C
Over 100 lbs	<input checked="" type="checkbox"/>	O	F	C

Other physical requirements:

Read Computer Screen	N	O	F	<input checked="" type="checkbox"/>
Operate Key Board	N	O	F	<input checked="" type="checkbox"/>

Work Environment: Temperature Controlled office environment. Hazardous Voltages Present.

The company has reviewed this job description to ensure that essential functions and basic duties have been included. It is not intended to be construed as an exhaustive list of all functions, responsibilities, skills and abilities. Additional functions and requirements may be assigned by supervisors as deemed appropriate.

Equal Opportunity Employer Minorities/Women/Veterans/Disabled

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or protected veteran status and will not be discriminated against on the basis of disability.