

Design Engineer Posted 01/10/08

Reports to: Vice President, Engineering

Education Required: BSME, BSEE, or equivalent

Interface, Inc. has a need for an experienced engineer who has relevant background in designing transducers and systems for precision physical measurements, preferably in force, torque, or pressure. The successful candidate must have knowledge of engineering mechanics, especially statics and strength of materials, and desire to work in a small company atmosphere where individual effort is highly visible. The opportunity will be to develop new products and refine existing products.

Qualifications: Primary responsibility is product planning and design of strain gage based load cells and transducers. Must know design principles including basic strength of materials science and stress analysis. This is a hands-on position. Successful candidate will be comfortable in the laboratory and on the production floor as well as at the design desk. Must be detail oriented and tenacious in perfecting design work. Experience with transducer or sensor technology required. Strain gage application experience desired.

Knowledge of engineering materials and joining technologies required. Familiarity with machining processes and welding desired.

Familiarity with transducer analog and digital instrumentation desired.

Experience in solid modeling required, SolidWorks preferred.

Proficiency in FEA desired.

Excellent communication and supervisory skills required.

Responsibilities:

Supervise an engineering team in design of custom force and torque transducers.

Control documentation and engineering drawing release. Write specifications and test procedures.

Perform basic stress analysis. Use computer software including CAD, FEA, spreadsheets, and word processors in design work and problem solving.

Manage development projects. Responsible for schedules, functionality, and meeting product specifications. Build and test prototypes.

Communicate with customers on technical issues.

Interface regularly with design support, quality, manufacturing, calibration, and sales personnel.

Contribute to corporate goals of reducing cycle time and lowering costs.

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