Navitar, Inc.

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Optical Engineer</th>
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<tbody>
<tr>
<td>Travel Required:</td>
<td>Minimal (&lt;10%)</td>
</tr>
<tr>
<td>Level/Salary Range:</td>
<td></td>
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<tr>
<td>Position Type:</td>
<td>Full time</td>
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### Job Description

**Definition:**

General: Under general direction of the Engineering Director or Senior Engineer, performs optical engineering work related to the planning, design and assembly of complex optical projects. This may include coordinating projects with contractors, evaluating requests for changes and performing related work as required.

Position Specific: Lens design capability, beginning with projection optics as related to simulator, dome, planetarium, and amusement applications. Ability to grasp/comprehend 3-dimensional characteristics of projecting single or multiple images onto curved surfaces and the blending requirements needed. Ability and desire to travel to tradeshows and customer sites to learn about the projection industry and promote Navitar products as needed. Attention to detail of system level performance of lenses in their application use, including visual analysis of quality and aberration as compared to computer models.

**Class Characteristics:**

This is the journey-level in the professional engineering classification series and incumbents may perform the full range of the engineering functions, but with primary emphasis on design activities. Assignments may include ongoing project design or program development under the guidance of the Director or a Senior Optical Engineer.

Examples of Key Duties: (Duties are illustrative and not inclusive and may vary with individual assignment.)

- Monitors and manages the day-to-day operations of a program or project including developing short and long-range goals and objectives, coordinating activities with other departments and agencies, overseeing records maintenance, monitoring budgets and monitoring expenditures, overseeing reporting requirements, evaluating program or project service delivery and cost effectiveness; ensuring that procedures are being followed and assisting in resolving complex problems.
- Conducts complex engineering and related studies, evaluates alternatives, makes recommendations and presents reports to the Director.
- Serves as project manager on complex projects, including consultant selection, amendments and change orders to contracts, preparing and monitoring project schedules; monitoring, reviewing and coordinating project design and assembly.
- Prepares designs, specifications, plans, estimates and reports for complex projects.
- Monitors and supervises design and assembly, including reviewing plans, specifications, estimates and calculations and giving technical advice on corrective action.
- Coordinating and managing multiple projects, often with competing deadlines; and
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• Communicating effectively with co-workers, contractors, consultants, representatives of organizations and others sufficient to convey information, both directly and over the telephone

Skills/Qualifications:

Education and Experience:

Graduation from a four-year college or university with major coursework in an Optical Engineering curriculum with an excellent academic history of lens design is required. A Master’s Degree in Optical Engineering or previous design work experience is a plus. Experience with CAD and opto-mechanics and/or metrology is a plus.

Physical Requirements and Working Conditions:

Must possess mobility to work in a standard office setting and to use standard office equipment, including a computer, and to attend meetings at various sites; strength to lift and carry materials and equipment up to 25 pounds, vision to read printed materials and a computer screen; and hearing and speech to communicate in person and over the telephone and/or videoconference.

Required Skills:

• Optical design, Zemax preferred, with emphasis on 1st and 3rd order aberration analysis;
• Tolerancing of lenses for manufacturability;
• Optical assembly and test;
• 3-D spatial awareness of complex virtual environments;
• Ability to interact with technical and non-technical staff and customers;
• Microsoft Office products

Desired Skills:

• Mechanical design concepts or CAD experience a big plus, Autodesk Inventor specifically;
• Basic programming of macros;
• Record of project management successes;
• Experience with Interferometers, optical stackers, or other metrology equipment;
• Basic electrical and/or mechanical “tinkering” experience a plus.

Approved By:  Robert Podlena  Date:  04/27/15
Last Updated By: Chad Byler  Date:  04/27/15