



PCB Layout Designer

Vescent is a leading designer and manufacturer of precision lasers, frequency combs, and control electronics for use in atom cooling, quantum sensing, precise timing, and other optical physics applications.

Description:

Vescent seeks a PCB layout designer to join our engineering team. The right candidate will create PCB layouts for a variety of electronic circuits for use in frequency-stabilized laser systems. They will be highly self-motivated, take utmost pride in their work, enjoy learning new skills, be an innovative problem solver, and communicate effectively as a team player. Vescent is a recognized leader in the development and manufacture of laser frequency control systems, including optical frequency combs, tunable lasers, electro-optical modules, and feedback control electronics. The candidate will be a part of cross-functional teams involved with both new product development and cutting-edge research projects in support of contract R&D. The work environment is fun, fast-paced, challenging, and interdisciplinary, involving a high degree of coordination between electrical, software, mechanical, and optical systems. The Vescent team takes pride in its work, is energetic and agile, and enjoys celebrating team successes.

Travel requirements: None

Location: Golden, Colorado, USA

Duties:

- Collaborate with members of the engineering, R&D, and production teams to support new product development and contract R&D programs. Specifically, work closely with electrical and mechanical engineers on PCB layouts.
- Efficiently utilize ECAD tools to:
 - Layout complex PCBs that include high-speed, low-noise analog and digital signals.
 - Manage and organize electronic component libraries.
 - Assist with schematic capture.
- Generate and maintain manufacturing documentation, including Gerber artwork files, bills of material, circuit board fabrication drawings, and assembly drawings.
- Ensure compliance with industry standards, specifically IPC-A-600 and IPC-2221.
- Properly apply best practices for Design of Manufacturing and Assembly (DFMA) and Design for Test (DFT).
- Assist with electronics troubleshooting, soldering/rework, and qualification testing.
- Help manage vendors for PCBA procurement, including quote requests, alternative parts selection, etc.

Required Qualifications:

- Minimum education: Associate degree in engineering, science, or related field (B.S. preferred).
- Work experience: 3+ years using ECAD tools for PCB layout, component library management, and generating manufacturing documentation packages.
- Demonstrated proficiency in reading and understanding circuit schematics.

Vescent
14998 W 6th Ave # 700
Golden, CO 80401

Ph: 303-296-6766
Fx: 303-296-6783
www.vescent.com



- Demonstrated knowledge of DFMA and DFT best practices.
- Proficient with operating standard electrical test equipment, including oscilloscopes and spectrum analyzers.
- In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire.

Desirable Additional Skills:

- Experience using Altium for schematic capture, layout design, and parts management.
- Familiarity with industry standards like IPC-A-600 and IPC-2221.
- Experience designing PCB layouts for low-noise, high-speed analog and mixed-signal circuits.
- Familiarity with low-noise and RF electronics design.
- Electronic troubleshooting skills.
- Experience maintaining shared PCB part libraries and/or PCB snippets.
- Basic soldering/rework skills.

Salary Range & Benefits:

- \$60,000-\$100,000, dependent upon candidate's education, work experience, and skill set.
- 4 weeks PTO
- Flexible work schedule
- Health/dental insurance
- Short-term and long-term disability insurance
- Retirement plan
- Stock option plan

How to Apply:

Please send your resume and a cover letter to jobs@vescent.com. Your cover letter should express how your skills, qualifications, and interests address the job description, and why you want to work at Vescent. Resumes without a cover letter will not be considered. Vescent is an equal opportunity employer.