



Product Engineer

Job Title: Product Engineer

Job Location: Dallas, TX

Job Description: Opportunity to work in what is perhaps the fastest growing segment of consumer electronics: pico projectors. A highly-motivated Product Engineer is needed to join our excellent team of skilled engineers developing liquid-crystal-on-silicon (LCOS) display panels for pico-projector applications.

Education Requirements: BSEE and 4 years of product engineering experience or MSEE and 2 years of product engineering experience are required.

Experience Requirements:

- Proven history of solving product engineering challenges: yield enhancement, test optimization, cost reduction and reliability
- Experience with customer return verification and failure analysis
- Strong bench characterization and debug abilities
- Working knowledge of reliability and qual testing for new products
- Working effectively with design, field application engineering & sales to solve issues
- Experience with LCoS product engineering is desirable
- Experience with optical testing of display panels is desirable
- Experience working with wafer fabs and assembly/test houses overseas is desirable

Knowledge Requirements:

Strong bench characterization and debug ability (both semiconductor devices and printed circuit boards)

Object-oriented programming language skills (C, C++, or C#)

Failure analysis
Qual and reliability testing

Statistical analysis
Gauge R&R

Microsoft Office (Word, Excel, PowerPoint)

Production ATE testing

Technical Responsibilities

Syndiant LCoS chips are fabricated via a foundry partner using a mature CMOS process technology. The LCoS chips are then packaged at our contract manufacturer into LCoS display panels. Syndiant also designs ASICs that drive the display panels.

- Failure Analysis
 - Characterize and debug failed display panels (customer returns / qual)
 - Coordinate work with failure analysis labs for deprocessing and root cause determination
 - Coordinate test program / optical inspection changes needed to reduce customer returns
- Optical Testing
 - Work with vendors to develop optical inspection test equipment
 - Implement optical inspection procedures at LCoS contract manufacturer
 - Improve optical inspection yield
 - Reduce optical inspection test time

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- Qual and reliability
 - Monitor and track qual and reliability testing
 - Help implement ISO procedures for qual testing
- ASIC product engineering support
 - Work with ASIC foundry to monitor and improve ASIC yield
 - Support ASIC bench characterization and customer return verification
- Bench characterization support
 - Support field applications engineering and PCB designer with bench characterization tasks (PCB and ICs)

Personal Attributes: Self-starting, strong technical aptitude, positive attitude, service oriented, and excellent communication skills (both written and verbal) are required. Candidates will be able to troubleshoot and analyze complex problems. Unquestionable integrity, drive to succeed and accomplish team challenges in a dynamic, hard working, fast-growing business environment.

Residency Requirements: Candidate must be able to demonstrate they are authorized to work in the US.

Company Profile: Syndiant, Inc. is a provider of LCOS digital light modulators for the pico projector market. Syndiant's technology uniquely meets our customer's exacting requirements for cost, size, power, resolution and color quality, enabling pico projectors small enough to fit in cell phones, laptops, Ultra-Mobile PCs, camcorders, and digital cameras. Our customers are also developing pico projectors for other markets including automotive, bio-medical, military, toy and aerospace. Our strong engineering team executes projects requiring a convergence of skills in IC, PCB, FPGA, software, optical, and mechanical design.

How to Apply: Please email your resume to: hr@syndiant.com

Syndiant, Inc. is an Equal Opportunity Employer