



Electrical Engineer 電気エンジニア 2025

New challenges, renewable energy.

Job Information

Hiring Company

[Delairco Japan](#)

Job ID

1546171

Industry

Electronics, Semiconductor

Company Type

Small/Medium Company (300 employees or less)

Non-Japanese Ratio

Majority Japanese

Job Type

Permanent Full-time

Location

Tokyo - 23 Wards, Chiyoda-ku

Train Description

Chuo Line Local (Mitaka-Ochanomizu) Station

Salary

Negotiable, based on experience

Salary Bonuses

Bonuses included in indicated salary.

Work Hours

9:30 to 6:30 (flexible hours are possible)

Refreshed

August 7th, 2025 15:00

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Business Level

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

Job Summary:

We are seeking a hands-on and detail-oriented **Analog & Digital Circuit Design Engineer** to design, development, and integration of electronic systems. This role involves end-to-end circuit board development—from concept and schematic capture to testing and system integration. The ideal candidate will have experience with both custom circuit design and integration of off-the-shelf (COTS) components into cohesive, reliable systems.

Key Responsibilities:

- Design analog and digital circuit boards, including schematic capture, component selection, and layout review.
- Simulate and optimize mixed-signal circuits for low noise, high stability, and power efficiency.
- Integrate COTS components and modules into larger system designs, ensuring compatibility and performance.
- Troubleshoot and debug circuits using test equipment (oscilloscopes, logic analyzers, spectrum analyzers, etc.).
- Develop and execute detailed validation and verification test plans for PCBs and integrated systems.
- Consider and design for EMI/EMC compliance, thermal constraints, and mechanical integration.
- Collaborate closely with firmware, mechanical, and manufacturing teams to ensure smooth system integration.
- Document designs, test plans, validation results, and compliance data clearly and thoroughly.
- Ensure designs meet relevant regulatory standards (FCC, CE, ISO, IEC) and internal quality guidelines.

Required Skills**Education & Experience Requirements:**

- Bachelor's degree (B.S.) in Electrical Engineering or a related field (Master's preferred).
- 3+ years of experience in analog and digital circuit design and testing.
- Experience designing, simulating, and troubleshooting analog and serial communication circuits.
- Familiarity with industry standards for serial communication (e.g., RS-232, RS-485, I2C, SPI, CAN, UART).
- Strong knowledge of signal integrity, noise analysis, and circuit debugging.
- Hands-on experience with oscilloscopes, spectrum analyzers, function generators, and logic analyzers.

Design Requirements:

- Ability to design and optimize circuits for low noise, high stability, and minimal power consumption.
- Experience with mixed-signal circuit design, including ADCs, DACs, and signal conditioning.
- Understanding of EMI/EMC considerations in circuit design.

Testing & Troubleshooting Requirements:

- Ability to create and execute detailed test plans for analog and serial circuits.
- Knowledge of failure analysis and root cause identification techniques.
- Experience using test fixtures and designing test setups for circuit validation.
- Familiarity with environmental and stress testing procedures.

Additional Skills & Knowledge:

- Strong problem-solving skills and ability to work in a hands-on lab environment.
- Knowledge of regulatory standards (e.g., FCC, CE, ISO, IEC) for analog, digital and communication circuits.
- Experience working with microcontrollers and embedded systems is a plus.
- Ability to document design, test procedures, and results in a structured and clear manner.
- Strong teamwork and communication skills to collaborate with cross-functional teams.

Company Description