Automotive Circuit Design Engineer (Power Electronics)

募集職種

採用企業名
CYIENT株式会社

求人ID
1490433

業種
自動車・自動車部品

雇用形態
正社員

勤務地
神奈川県

給与
経験考慮の上、応相談

更新日
2024年12月17日 02:00

応募必要条件

職務経験
6年以上

キャリアレベル
中途経験者レベル

英語レベル
ビジネス会話レベル

日本語レベル
ビジネス会話レベル

N2 and above

最終学歴
大学卒：学士号

現在のビザ
日本での就労許可が必要です

募集要項

Position: Automotive Circuit Design Engineer (Power Electronics)
Location: Yokohama
Language: N2 and above

Job Description:

Responsibilities:
• Design and develop automotive electronic circuits for applications including:
• Inverters for motor control
• DCDC converters
• Battery control systems (fast charging)
• DC/DC power supplies (flyback)
• Resolver circuits
• Motor control microcomputer circuits
• Utilize circuit simulation tools (LTspice, PSpice, Scideam) to validate and optimize designs.

- Analyze component data sheets to select appropriate components and configure circuits effectively.
- Conduct hardware testing and verification using oscilloscopes and Hardware-in-the-Loop Simulation (HILS).
- Document circuit design content, validate design performance, and prepare technical reports.
- Collaborate with other engineers and technical teams to ensure project success.
- Stay up-to-date with the latest advancements in automotive electronics and power management technologies.

スキル・資格

Qualifications:

- Bachelor's degree in Electrical Engineering or a related field.
- Minimum of 5 years of experience in Analog circuit design experience.
- Proven experience in power electronics design, particularly with high voltage and high current applications.
- Expertise in analog circuit design and power electronics circuits (inverters, DCDC converters, flyback converters).
- Experience with motor control microcomputer circuit development and resolver circuits is a strong plus.
- Proficiency in circuit simulation software like LTspice
- Experience in circuit diagram creation tools (OrCAD, etc.) and circuit simulation software (PSpice, Scideam) is plus
- Experience in Automotive ECU design and development is additional plus
- Hands-on experience with hardware testing equipment (oscilloscopes) and HILS testing.
- Strong understanding of functional safety concepts and automotive safety standards (ISO 26262 preferred).
- Excellent analytical and problem-solving skills.
- Ability to work independently and as part of a team.
- Strong communication and interpersonal skills.
- Ability to prioritize tasks and meet deadlines.

スキル・資格

会社説明