



Example of Electrical Engineer Senior Job Description

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Our innovative and growing company is looking to fill the role of electrical engineer senior. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

Responsibilities for electrical engineer senior

- Supervising and performing field reviews and shop drawing reviews
- Performing and confirming design calculations and analysis with respect to electrical distribution network concepts
- Taking professional responsibility for the designs as required by Professional Engineers Ontario
- Conducting independent studies and analyses
- Responsible for treating passengers and/or employees with respect and dignity and ensuring the needs of passengers or employees with disabilities are accommodated and/or addressed (within your area of responsibility) in accordance with the Ontario Human Rights Code and Related Orders so that they can fully benefit from the client as a service-provider and an employer
- Design, fabrication, and characterization of vacuum field-effect transistors which utilize the unique emission properties of graphene and other related two-dimensional materials
- Work with advanced designs which shall leverage existing planar semiconductor fabrication techniques to enable eventual wafer scale production and circuit implementation
- Develop the transistor fabrication development which shall utilize state-of-the-art processing techniques, including wet and dry etching, advanced optical and electron beam lithography, and high-quality dielectric deposition methods, to produce low resistance ohmic contacts and device geometries that are necessary for high-speed performance

Qualifications for electrical engineer senior

- Knowledge of schematic capture/PCB routing software, preferably Altium Designer or OrCAD
- Implement detailed designs in schematic form
- Adhere to DFM and DFT guidelines to develop manufacturable designs
- Develop and execute test protocols and verify designs
- Collaborate with NPI and other engineering functions to transition designs into production
- At least 8 years of board design experience, taking designs from concept all the way to production