

Junior Electrical Design Engineer – Construction & Electronics

About Us

NextGen Electromech Solutions is an emerging player in the Irish construction-electronics integration space. We specialize in embedded systems, smart infrastructure, and power electronics for construction applications. We are currently seeking a motivated and technically capable Junior Electrical Design Engineer to join our growing engineering team.

Key Responsibilities

- Assist senior engineers with the design and testing of electrical systems for smart buildings and industrial setups.
 - Contribute to circuit design, simulation, and debugging using tools such as Electronics Workbench and MATLAB.
 - Implement and troubleshoot embedded systems using C/C++ and VHDL.
 - Participate in safety audits and ensure adherence to health and safety protocols on-site.
 - Collaborate with construction teams for site surveys and electrical layout planning.
 - Assist in preparing client reports and presentations using PowerPoint and Excel.
 - Maintain and update technical documentation and project logs.
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Required Qualifications & Skills

- **Bachelor's degree in Electrical or Electronic Engineering** (2.1 or above preferred).
 - Solid understanding of **Power Electronics, Control Engineering,** and **Telecommunications.**
 - Proficiency in **C, C++, VHDL,** and experience with **LINUX OS** environments.
 - Familiarity with **HTML** and **Microsoft FrontPage** for basic web documentation and internal portals.
 - Competent with MS Office suite, especially **Excel, PowerPoint, and Access.**
 - Strong organizational and time-management skills; capable of prioritizing tasks effectively.
 - Excellent verbal and written communication skills and the ability to work well in a team.
 - Previous internship or experience in an engineering, construction, or electronics environment is a plus.
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Nice-to-Have

- Experience with laser survey instruments or demolition work procedures.

- Familiarity with safety compliance in construction environments, including chemical safety.
 - Interest in developing customer-facing content or basic internal webpages.
 - Involvement in team sports or leadership in extracurricular activities.
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