

## Remote Control System Engineer: Junior Level

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Company: Uptalent.io

Location: Bogotá

Category: architecture-and-engineering

Leading company specializing in the design of control solutions for the building automation industry is seeking to fill the following position: **Design Engineer\_ Junior Level**

The Design Engineer I, under intermittent supervision, will be responsible for the design of custom, state of the art, electronic and DDC control systems that meet our clients' plans and specifications for small projects. Each solution will be implemented, on schedule, in a cost-effective and professional manner. The Design Engineer I, is a professional who applies acquired job skills, policies, and procedures to complete substantive assignments/projects/tasks of moderate scope and minimal complexity; exercises judgment within defined guidelines and practices to determine appropriate action.

### **Essential Duties and Responsibilities:**

#### **1. Ensure that the project requirements and risks are understood by:**

- Attending sales turnover meetings to gain knowledge of the sales estimate and project scope.
- Analyzing project plans, specifications, sales estimates, and sales proposal.
- Creating a list of project engineering deliverable (submittals, workflow packages, etc).
- Generating Request For Information (RFI) requests

#### **2. Ensure that final product matches the design intent and clearly communicates design and operation of system by:**

- Creating controls drawings utilizing ACAD software that include flow diagrams, sequences of operation, bills of material, network layouts, schedules and electrical schematics as required.

### **3. Make final decisions regarding installation method and materials by:**

- Selecting the appropriate mix of products and installation methods to provide the most cost-effective solution that is compliance with the project specification, applicable codes and company standards.

### **4. Select the proper control valves and actuators that will do the best job of controlling the process is selected by:**

- Investigating the applicability of different valve styles and sizes to a particular application, with showing a preference to control valves manufactured by Honeywell.
- Completing and submitting a comprehensive and accurate control valve schedule in a timely manner.

### **5. Design a stable, robust, implementable, scalable, and maximum performing BMS communication network by:**

- Determining network architecture, topology and transmission media that is appropriate for the installation and conforms to the latest network standards and project specification.
- Selecting network components (such as servers, switches, routers) that support operator workstations, DDC field panels, third-party integration devices connected via Lonworks, Ethernet, Modbus or BACnet communication protocols.
- Producing network wiring diagrams and network addressing documents that provides a clear picture of the design in a timely manner.

### **6. Get approval from the customer or consulting engineer on installation methodology and materials by:**

- Preparing submittal documents that demonstrates that the proposed materials, etc., that are in compliance with the contract drawings and specification.

### **7. Ensure successful procurement of electrical subcontractors by:**

- Preparing electrical sub-contractor buyout documents that clearly defines the electrical scope of work
- Working closely with the project manager

### **Requirements**

1. Knowledge of Microsoft Office (i.e., Word, excel, PowerPoint, and Outlook) software.
2. Knowledge of Autodesk AutoCAD software
3. Knowledge of electrical and electronic theory.
4. Knowledge of the elements and building blocks of HVAC controls
5. Knowledge of damper actuator and control valve sizing and selection.

6. Knowledge of the control strategies and logic that can be used to provide optimum operation of plant level HVAC systems (such as chillers, boilers and air handlers).
7. Knowledge of the control strategies and logic that can be used to provide optimum operation of supplemental HVAC systems (such as VAV boxes, fan coil units and unit heaters).
8. Knowledge of supervisory control strategies for the overall operation of the BMS (such as life safety control, electrical demand control, etc)
9. Knowledge of BMS communication protocols and network topologies. General understanding how these protocols are implemented with specific knowledge of installation and configuration best practices.
10. Knowledge of Honeywell DDC product offering.
11. Knowledge of the company's design standards and processes.

### **Execution**

1. Scopes and implements project-level solutions with minimal guidance.
2. Consistently follows best practices, able to defend technical decisions in design review meetings.
3. Creates accurate designs.
4. Manages workload efficiently, proactively suggesting solutions to competing demands.
5. Engages with project sales and productions team members on the feasibility of requested scope, clarifying requirements where necessary.
6. Seeks input from colleagues with area expertise.
7. Detects problems in proposals, specifications, and drawings.
8. Takes ownership and can work autonomously on projects with minimal complex requirements, delivering design documents on time and with a quality mindset.

### **Benefits**

Work for the most exciting companies in the North American Market.

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Highly competitive compensation.

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