



## **Principal Hardware Engineer**

### **EXB Solutions**

### **Remote**

The **Principal Hardware Engineer** at EXB Solutions will work with a team developing hardware certification artifacts around an existing baseline. The program will be conducted in compliance with RTCA DO-254, Level A. The Principal Hardware engineer will complete the required Hardware deliverables (HDD, HAS covering 2 FPGAs) to support formal PDR/CDR/TRR reviews. The Principal Hardware Engineer will be responsible for updating traceability from the system requirements and writing problem reports around any requirements that do not have correct requirements to trace against. The role will then transition to the creation and execution of (in-circuit) test cases and procedures and documenting Hardware Test Results.

1. Ensure all previously developed hardware meets the objectives of DO-254, Level A
2. Create Hardware Design Description, Hardware Accomplishment Summary
3. Provide traceability up to the system requirements as needed / document any identified gaps
4. Create in-circuit tests to augment existing simulation testing per DO-254
5. Execute test procedures and capture results in Hardware Test Results
6. Support preparations for and attend all formal reviews: PDR, CDR, TRR

### **Required Experience:**

- 10 + years' experience in a hardware design/test
- Experience with FPGA design
- Working knowledge of DO-254 lifecycle
- Experience developing hardware requirements and test procedures
- Working knowledge of DOORS basics
- Strong problem-solving and analytical skills. Must be able to describe problems and solutions in a clear, concise manner.
- Strong organizational, interpersonal, written, and verbal communication skills.
- Ability to work in a fast-paced, time-critical work environment

### **Desired But Not Required Experience:**

- Knowledge of ARP4754 and ARP4761 helpful
- Knowledge of Radar Altimeter (RALT) design

### **Location:**

Remote with ITAR restrictions - work must be performed within the United States

### **Security Clearance Requirements:**

US Citizen only, but no clearance required

### **Travel Expectations:**

No travel expected