



## OVERVIEW

IDEAS Engineering & Technology, LLC (IDEAS-TEK) provides innovative and cost-effective electronic and embedded solutions for mission-critical systems with a focus on the rapidly-growing space market. Our team is working to enable the next generation of high-reliability space platforms by combining our expertise in developing cost-effective, Rad-Hard ASICs, with our ability to apply today's high-performance commercial electronics in space environments. IDEAS-TEK's core competencies include digital microelectronics, high-performance and high-reliability embedded systems, and computing and sensing systems, while our company track record includes returning clients from across the US aerospace industry and multiple scientific payloads deployed aboard satellites and the International Space Station. Recognized in 2018-2021 by New Mexico Technology Flying 40 as one of the fastest growing companies in NM, IDEAS-TEK is looking for an **Embedded System Engineer** to fill a full-time position.

IDEAS-TEK is seeking candidates at different levels with compensation commensurate with experience.

## JOIN US!

- Competitive salary based on experience;
- Company sponsored medical plan;
- Dental and vision insurance;
- Retirement plan with company matching;
- Flexible schedule;
- Paid Vacation;
- Paid sick leave;
- Work with a great team dedicated to innovation and creative, reliable solutions!

## RESPONSIBILITIES

- Design and implement RTL and/or software for embedded devices and systems from requirements to prototype, production, and/or deployment;
- Design, develop, code, test and debug system software;
- Analyze and enhance efficiency, stability and scalability of system resources;
- Interface with hardware design and development teams;
- Document design process and report systems results;
- Support customers in the integration and deployment of the system;
- May need to perform hardware design (schematic, PCB).

## REQUIRED QUALIFICATIONS

- Strong desire to work with hardware (embedded processors, FPGAs, other electronic systems);
- Working knowledge of Verilog for synthesis and simulation. VHDL and SystemVerilog experience is a plus.

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- Working knowledge of FPGA design flow using LiberoSoC and Vivado;
- Work experience lab equipment (oscilloscope, multi-meters, etc.);
- Strong experience in hands-on development and troubleshooting on embedded targets;
- Experience programming for microcontrollers and other applications;
- Familiarity with software configuration management tools, defect tracking tools, and peer review;
- Excellent knowledge of OS coding techniques, IP protocols, interfaces and hardware subsystems;
- Strong documentation and writing skills;
- Adequate knowledge of reading schematics and data sheets for components.

### **DESIRED QUALIFICATIONS**

- A strong ability to analyze and understand a system and communicate requirements in technical terms;
- Familiarity with schematic capture and PCB design tools (Eagle or Altium) is a plus;
- Methodic in developing and following design and testing processes;
- A high aptitude for learning and adapting to new and quickly changing technologies;
- Team player;
- Creativity is important because the projects are diverse, but the purpose remains the same: to find a solution!

### **EDUCATION- Minimum Qualifications**

- Bachelor of Science in Electrical or Computer Engineering. A related field will be considered if the candidate has extensive experience with electronic/embedded systems.

### **US Citizenship/Permanent Residency is Required.**

IDEAS-TEK is an equal opportunity employer and does not discriminate on the basis of race, religion, color, national origin, age, sex, gender, gender identity, gender expression, genetic information, disability or any other characteristic protected by law.

APPLY: Please send your resume to [HR@IDEAS-TEK.COM](mailto:HR@IDEAS-TEK.COM)