



SI2 Technologies, Inc.

Job Title: Senior Digital/Electrical Engineer

Supervisor Title: Product Line Manager – Airborne Electronic Warfare

SI2 Technologies is a high-tech company dedicated to the design and manufacture of Radio Frequency/Millimeter Wave (RF/MW) systems for military, aerospace, and government platforms constrained by space, weight, power, and cost. Our mission is to increase our country's warfighters' effectiveness and survivability by providing solutions to RF/MW and survivability challenges. Our R&D engine combines deep design insight, engineering expertise and product development capabilities to manufacture and test antennas, arrays and/or signal management systems to facilitate optimum performance and increased survivability in land, sea, air, and space applications.

SI2 Technologies is seeking a talented and highly motivated Senior Hardware Electrical Engineer who can significantly contribute to growth of SI2's existing sensor, communication and ISR systems. To be successful in this position, candidates must be innovative, enjoy learning and expanding their knowledge base, and thrive on meeting challenging performance requirements. Good communication skills are key to determining customers' needs and creating winning proposals.

About the Role:

Key Responsibilities:

- Leverage cutting-edge SDR and DSP technologies to create novel designs for communication and sensor systems, addressing emerging customer requirements and enhancing U.S. warfighter capabilities. Work individually and with SI2's Airborne EW systems team to develop and propose competitive solutions for customers that capture new business and achieve overall Company goals and objectives.
- Evaluate system design requirements for existing and new contracts, identifying solutions and risks and supporting the Product Line manager in setting cost and schedule requirements. Document system technical requirements and identify critical design, material, and manufacturing performance indicators to establish design control parameters.
- Execute system, hardware, and software/firmware design tasks for communication and sensor systems to meet established technical requirements within cost and schedule constraints. Validate designs and models via experimentation. Communicate designs and results to SI2 management and customer representatives.
- Maintain knowledge of the state-of-the-art through participation in professional organizations, reading professional publications, maintaining personal networks, and engaging in educational opportunities.
- Serve as Principal Investigator for research and development efforts, to include actively participating in technical business development, monitoring of project technical progress, updating project schedules, and overseeing project budget. Maintain communications with customers through regular reports and technical briefings, both in-person and electronic.
- Supervise and mentor junior engineers to enable their personal and professional growth

About You:

The ideal candidate will have the following attributes:

- US citizen able to obtain and maintain a Security Clearance
- Doctorate in Electrical Engineering with 2+ years of relevant experience, or a Masters in Electrical Engineering with 10+ years of relevant experience
- Proven track record designing, testing, and optimizing electronics and software/firmware for communication and sensor systems. Proficient at analyzing test results and relating them to design characteristics and manufacturing methods. Experience transitioning design ideas to product offerings, including product maturation and design for manufacturability, is a plus.
- Extensive digital hardware and software/firmware experience to include FPGAs, MCUs, and SoC devices and their use in embedded, low-power systems and SDR platforms. Familiarity with Verilog and C programming and communications protocols such as BLE, I2C, and SPI is a plus.
- Experience writing, winning, and successfully executing contracts and grants with the DoD and Defense Prime Contractors. Previous relationships with Defense Prime Contractor and DoD SMEs is a plus.
- Exceptional communications skills (written and verbal) and leadership qualities. Team player with ability to influence and motivate others. Experience managing small design teams is a plus.
- Ability to travel, as required, to prospective and existing customer and vendor facilities, conferences and trade shows.
- Experience working in a small business environment is a strong plus.

About Us:

Headquartered in Billerica, MA, we are located 45 minutes from Boston, and less than an hour from Worcester, MA or Manchester, NH. We have many of the perks you can find in the Boston/Cambridge area (walkable to lunch, local fitness facility, etc.) and some perks that you can't (ample free parking!)

We have assembled an action-oriented team of smart, creative and energetic technical and business experts passionate about our mission. Our diverse project portfolio and our commitment to our customers sets us apart. We solve complex warfighter problems through "smart" RF electronic system solutions. We use a combination of conventional and additive manufacturing designs, materials, and processes to enhance the warfighter's effectiveness while providing increased protection against current and emerging threats.

Everyone at SI2 Technologies is a part of the journey.

SI2 Technologies is an Equal Opportunity Employer EEOC - M/F/D/VEEO

For more information, please visit www.SI2Technologies.com or follow us on LinkedIn. #WeMakeThingsSmart

**Please send resumes to careers@si2technologies.com
No phone calls please. Resumes from third party vendors will not be accepted.**