

POSITION DESCRIPTION

Senior Electrical Engineer

Pharad, LLC is a leading developer of state-of-the-art antenna, photonic and wireless communications products. We are seeking a Senior Electrical Engineer to join our highly skilled engineering development team to support the development and implementation of our unique technology solutions.

Summary:

The successful candidate will possess a diverse skill set allowing independent design, development, debug, programming and testing of digital circuits/board assemblies and analog mixed signal circuits/boards for radio frequency, microwave and photonic systems/subsystems. The candidate will collaborate with other engineering disciplines and provide support to Manufacturing for new and existing designs. Salary will be commensurate with experience.

Responsibilities:

- Participate as a member of the engineering team that designs, develops, prototypes, and tests our advanced products.
- Develop design specifications for digital and analog electronic assemblies for RF, microwave and photonic products.
- Propose designs and alternatives to meet requirements.
- Carry out detailed circuit design, select components, and write embedded software for microcontrollers for photonic and RF subsystems.
- Test and evaluate the performance of analog mixed signal interface circuits for ADC, DAC, DSP and FPGA based subsystems.
- Prepare schematics and bills of material, and create PCB layouts and assembly documentation.
- Debug designs and collect data to assess design robustness.
- Develop test plans to validate the performance of designs.
- Participate in design reviews, and assess ability of designs to meet requirements, including manufacturability.
- Assist in test planning and measurements of developed RF and photonic systems and subsystems.
- Complete assignments within established schedules and budgets.
- Support interactions with customers.
- Transition designs to manufacturing and support as required.

Qualifications:

- MS in Electrical Engineering or BSEE with equivalent design experience (>5 years).
- Demonstrated application of electrical engineering circuit design principles and techniques including solid experimental skills, use of basic lab equipment and experience in practical implementation of control and analog mixed signal circuits.
- Familiarity with high speed ADC, DAC, DSP and FPGA hardware.
- Extensive knowledge of multi-layer board layout.
- Experience in embedded board-level design with microprocessors and programmable logic.
- Familiarity with standard communication interfaces including RS232, SPI, I2C, and Ethernet.
- Experience in power supply design.
- Experience with ECAD tools (preferably Allegro) for schematic capture, simulation, and board layout.
- Strong analytical skills and ability to identify problems and solutions
- Must be a self-starter, motivated and able to work independently with minimum supervision
- Possess a strong work ethic, be goal oriented, and a team player with good interpersonal skills.
- Demonstrated ability to plan, organize, prioritize and finish tasks.
- Strong verbal, presentation and written communication skills.
- US Citizens only