

Senior RF Analog Engineer

Openings: 1 (Bangalore, India)

Experience: 10+ years

Employment Type: Full Time

Job Description:

Looking for design and development capabilities for high-performance, low-power, low-noise radio frequency (RF) analog circuits interfacing with high end medical sensors and transducers. The ideal candidate will have strong RF/Analog design skills and experience in a variety of areas: RF Switches, Receivers, Transmitters, Frequency Synthesizers, and their associated building blocks such as LNAs, Active or Passive Mixers, Baseband Channel Select and Anti-Alias Filters, Driver Amplifiers, Power Detectors, VCOs, Charge Pumps, Frequency Dividers, etc..

Should have expertise in:

- Transistor level circuit design, Linear amplifiers design
- System level SNR analysis, instrumentation and measurement
- Impedance and gain calculations
- Aware of signal integrity issues (ie. effects of packaging, board parasitics, crosstalk, noise)
- Should have enough experience in handling complex multilayer board layout for sensitive analog and high speed circuits
- Should have experience on building high performance analog circuits from SPICE simulation to working prototypes with the off-the-shelf components to custom designed PCBs
- Should have good experience in grounding and shielding issues management
- Experience in efficient power supply design and filtering
- Prior experience in ultrasound AFE design and medical domain will be plus
- Experienced user of state-of-the-art EDA tools like Cadence Orcad, Allegro, Visio, Altium
- Should have hands on experience on simulation tools such as SPICE, Hyperlynx (would be plus)
- Good knowledge of system level budgeting (ie. jitter, amplitude, noise, power supply estimation)
- Experience in EMI/EMC testing and certification.
- Must have good experience on board level testing and be able to use lab instruments such as spectrum analyzer, network analyzer, function generator, oscilloscope, multimeter, etc.
- Excellent analytical and problem solving skills