Analog Design Engineer -
Primary Location: USA-NC-Raleigh

Description

Design, development, and debug of Mixed Signal Integrated Circuits within a team developing highly integrated RF-to-bits transceivers. Strong baseband analog circuit skills required. RF circuit knowledge not required but is a plus. Applicants must be capable of growing their skills to encompass the wide range of circuits and systems included in these products.

Responsibilities include:

- Identifying suitable architectures, evaluation of chip level trade-offs, developing design specifications, performing circuit design, simulation, layout and verification using computer-assisted design software.
- Preparing design documentation and presenting design reviews, and interface with digital and systems/communications engineers to define/optimize calibration algorithms/DSP circuits.
- It also includes debug and verification on the bench using analog and RF measurement instruments, and coordinating with product and test engineers to release new products to manufacturing.

Qualifications

This role requires a Master’s degree in Electrical Engineering and two to four years of experience or an exceptional PhD with 0 to 2 years in the field of analog or RF design involving:

- design, simulation, and analysis of MOS transistor-level analog circuits with feed-back control, parasitic analysis, and AC/DC analysis;
- analysis of analog circuit design trade-offs and parameters including noise, distortion, mismatch, gain, bandwidth, stability, and power; design of common circuit topologies used in CMOS analog circuits;
- analysis including small/linear signal analysis, large signal and frequency domain.