

GhostWave is currently looking for a Radio Frequency (RF)/Microwave/Radar Engineer with a broad range of experience to join our engineering team in a highly collaborative and hands-on role that supports the analysis, design, implementation, optimization, and enhancement of GhostWave's unique radar equipment.

In particular, an understanding of design issues involved with low-power, light-weight and low-cost RF/microwave circuit board design to 30 GHz is desired, and experience to 80 GHz (E-band) is a plus. The individual should be familiar with RF/Microwave test equipment in these bands. The individual will apply knowledge of component-level design for existing circuit debug and new circuit development using &/or designing amplifiers, filters, upconverters, downconverters, VCO and phase-locked (PLL) oscillators and switches. The individual will additionally verify engineering designs through measurement of S-parameters, compression point, switching speed, spurious signals, phase noise and should be familiar with noise figure, intercept point of components and integrated microwave assemblies. Some familiarity with design and testing for 24 GHz ISM band FCC compliance certification is desirable. Additionally some understanding of radar concepts and radar cross section (RCS) as applied to aerial vehicles from the size of small drones to small aircraft is desired.

The ability to clearly communicate with an engineering team both verbally and via electronic presentations (i.e., PowerPoint) to produce integrated system design solutions is a needed. Additional responsibilities may include technical/feasibility trade off analysis for new products.

Qualifications

- Education: A bachelor's degree in Electrical Engineering or a related engineering degree is required. A master's degree is preferred.
- Five (5) years of related experience in designing, testing and troubleshooting RF/Microwave sub-systems integrated microwave assemblies and components: working knowledge of electronics including power and RF theory; RF/Microwave parameters & test procedures is desired.
- Design Experience: Experience with microwave circuit board design for high-bandwidth upconverters, mixers, drivers, and power amplifiers at S-, X-, and/or K-band ranges. Experience designing for wide-bandwidth/high data rate applications is a plus, as similar techniques are used in the GhostWave radar is desired.
- Computer skills: exposure to a networked environment using a Windows and/or Windows like interface using Microsoft Office suite. RF design tool experience is a plus.
- This is a consulting position.