



Embedded Hardware Engineer

Parry Labs is seeking an **Embedded Hardware Engineer** to participate in the electronic hardware development of wideband phased array (electronically steerable array – ESA) antenna products for mobile platforms. Located in Columbia, Maryland, the candidate will join our multi-disciplined engineering technical team, in the electronic hardware development for phased array antennas through their complete life cycle, from concept through delivery.

Specific responsibilities for this position include:

- Embedded hardware requirements development, evaluation, and tracking
- System architecture, design, development, prototyping, testing, and implementation of electronic circuit cards for phased array antenna control
- Development of embedded controllers, power electronics circuits and distribution, and electrical interfaces with external systems over RF, baseband, and digital interfaces
- Collaboration with embedded software engineer in executing the development, testing, and implementation of antenna controllers
- Coordinate with fabrication vendors, including a quality assurance understanding
- Documentation of work product for management and customer program reviews

Desired qualifications this position include:

- BS in Electrical Engineering, or related engineering/science/mathematics fields
- 10 years of hardware development experience, with a minimum of 5 years towards the application of embedded systems
- Strong experience with the development of embedded hardware systems with FPGAs and/or microprocessors
- Strong experience with mixed signal PCB circuit layout, analysis, and standard commercial software simulation tools
- Experience with DC high power electronics, EMC and noise challenges, and electrical safety guidelines
- Understanding of and experience implementing SPI hardware communication interfaces
- Experience in creating and developing hardware development plans
- Experience with requirements development, testing, and validation
- Experience with electronic laboratory equipment for hardware testing and debugging
- Excellent interpersonal skills, along with effective written and verbal communication skills, to communicate with a diverse team of many technical and managerial levels
- Some travel may be involved for this position

Candidates must be a US Citizen, and have the ability to obtain a US Government security clearance, and will be subject to a US security background investigation. An active security clearance is preferred.

Parry Labs is an Equal Opportunity / Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), national origin, age (40 or older), disability, genetic information, protected veteran status, or any other factor prohibited by applicable law.