

ALARIS ANTENNAS (PTY) LTD

All members of the company are to abide by the company's policies and procedures.

ANNEXURE A:

JOB PROFILE

1. POSITION	
Position title:	RF PCB Design Engineer
Department:	Product Development
Reporting to:	Project and Engineering Manager
Preferred country location:	South Africa / UK – Our organization follows a hybrid work structure where employees can work remotely or from the office, as needed, based on demands of specific tasks or personal work preferences.
2. REQUIREMENTS	
Education (essential):	Bachelor's or Master's degree in electronic engineering, or a related field
Education (suggested):	Professional certifications in RF design or PCB design. Experience with antenna design and characterization is beneficial. Familiarity with FPGA programming and digital signal processing (DSP) concepts is a plus.
Minimum applicable work experience (years):	3+ years
Required nature of applicable experience	<p>Proficiency in RF and digital electronic circuit design, simulation, and analysis using industry-standard tools such as Altium, or similar.</p> <p>Solid understanding of RF principles and concepts, including transmission line theory, impedance matching, and RF component characteristics.</p> <p>Experience with RF test equipment and measurement techniques, such as spectrum analyzers, vector network analyzers, and oscilloscopes.</p> <p>Familiarity with PCB layout and design considerations for RF and high-speed digital circuits.</p> <p>Knowledge of industry standards and regulations related to RF systems and electromagnetic compatibility (EMC).</p> <p>Strong problem-solving skills and the ability to analyse complex RF and electronic systems.</p> <p>Excellent communication skills and the ability to work effectively in a collaborative team environment.</p> <p>Self-motivated and proactive, with the ability to manage multiple tasks and priorities effectively.</p>
Main purpose of the role:	<p>Alaris Antennas, a subsidiary of the Alaris Holdings Group, is seeking a talented and motivated RF/Electronic Design Engineer to join our team. As a leading global provider of advanced antenna systems and solutions for defence, aerospace, and telecommunications industries, we are dedicated to delivering cutting-edge technologies to the global defence, homeland security, and specialized antenna markets.</p> <p>About Alaris Antennas: Alaris Antennas, part of the Alaris Holdings Group, is known for its commitment to innovation and excellence. We foster a dynamic and collaborative work environment where creativity and expertise thrive. Join us and contribute to our mission of shaping the future of advanced antenna technologies.</p>

Computer literacy (essential):	Altium or similar MS Office MATLAB
Computer literacy (suggested):	SharePoint
Language proficiency:	English
Other Characteristics: (Based on the Values and Competency Frameworks)	High levels of initiative and accountability Excellent technical problem-solving skills Logical thinker Self-driven Excellent oral and written communication skills Work well under pressure and adhere to deadlines

3. KEY RESPONSIBILITIES

Responsibilities	<ul style="list-style-type: none"> ➤ Collaborate with cross-functional teams, including Embedded Software Engineers, RF Engineers, Mechanical Engineers, Test Engineers, and other Electronic Design Engineers, to develop and optimize RF and electronic hardware solutions for advanced antenna systems. ➤ Design, simulate, and validate RF and electronic circuits and components, including amplifiers, filters, mixers, oscillators, and matching networks, to meet performance specifications. ➤ Perform RF and electronic system-level analysis, including noise figure, linearity, and signal integrity, to ensure optimal system performance. ➤ Conduct extensive testing and characterization of RF and electronic hardware prototypes, utilizing RF test equipment such as spectrum analyzers, vector network analyzers, and oscilloscopes. ➤ Collaborate with production and manufacturing teams to support the transfer of designs into production, ensuring manufacturability and reliability. ➤ Stay updated with the latest advancements in RF and electronic design methodologies, industry trends, and relevant technologies, and apply this knowledge to enhance product designs and development processes. ➤ Provide technical support to other teams, including customer support, to ensure successful product deployment and customer satisfaction.
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