Job Description

Job title: Senior RF Engineer

Business Unit: Vislink **Division:** Engineering

Role:

To design complete RF project solutions, including hardware and PCB design for integration into products, modules and assemblies, including test and support. Frequency ranges up to 11GHz.

Relationships:

a) Reporting to: Engineering Team Leader
b) Direct Reports: none
c) Liaison with: Production, Test, Customer Support, Suppliers, external design resources, Customers and potential Customers.

Accountabilities:

Design and develop RF system designs ranging from simple to complex.

Design and develop RF hardware and PCB modules for inclusion into products and assemblies.

Design of power amplifiers, downconverters, transmitters, receivers and transceivers for broadcast and surveillance products.

Simulation of RF designs using computer aided design tools such as Microwave Office.

Generate design specifications, concepts, analysis, detail drawings, assembly instructions/documentation, assembly and test fixture designs, test specifications and user manuals for products and assemblies whether for new products or enhancements to existing ones.

Assist and mentor junior RF engineers.

Provide support and assistance for other development engineers within our engineering design teams.

Raise, assess and implement engineering change requests (ECR).

Monitor new RF technologies and components and implement as applicable into the work allocated.

Responsibility for ensuring that appropriate processes and disciplines are maintained in order to engineer class-leading quality designs.

Skills required

	Essential	Desirable
Qualifications/ Attainments	Degree in Electronic Engineering or Physics, HNC or equivalent, or demonstrable ability through experience.	Higher degree in RF engineering. Chartered engineer or in process of achieving.
Relevant Experience	Three to five years lead design experience in a medium sized business. Five years' experience in design of up-converters and down-converters or similar. Five years' experience in design of COFDM modulators and demodulators or similar. Five years' experience in design of RF power amplifiers, GaAs FETS and GaN devices. Experience of dealing with customers to resolve technical issues. Experience with UHF telemetry. Experience in linear pre-distortion correction techniques. Experience ranging from concept generation to analysis, detailing and test.	Experience in sat coms or broadcast related industry. Experience of broadcast TV and/or video. Experience of broadcast TV cameras. Experience of satellite communications for data, voice and video transmission. Experience with Altium schematic capture and PCB design tools. Experience of development project management. Experience in thermal management.
Required Skills	DFM experience. Write and update technical documents to present technical findings. Strong debug and investigative skills at the board level (using all types of relevant test equipment) and in a software debug environment. Knowledge of hardware communications busses including serial, I2C and SPI. Good soldering skills. Microwave Office.	Knowledge of current world communication standards and legislation. Knowledge of microprocessors/microcontrollers and support hardware. Knowledge of Analog Devices range of integrated transceivers Solidworks.
Personal Attributes	Ability to work within project teams as well as independently. Takes full accountability and responsibility for quality and delivery of work. Ability to plan work and estimate time involved. Good time management skills and well organised. Ability to understand requirements of others and deal with appropriately. Good oral and written communication skills. Analytical and accurate.	Ability to reverse engineer products and assemblies. Ability to handle complex information.
Circumstances	Must have full driving licence. Willingness to travel an advantage, but not essential as position is primarily office based.	Able to undertake business trips lasting up to two weeks.

Job description approved by: Jay Wells Date: 10/01/2019