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Job Title	Electronics Development Manager
Department / Code	BRD – Electronics
Main Purpose of Job	Team manager of a multi-disciplinary team that produces a wide range of bespoke solutions to support the timing, televising, and organisation of Formula 1 events
Responsible To <i>(Specify who the Post Holder should Report to)</i>	Head of Electronics

Main Duties and Responsibilities

THE TEAM

The Formula 1 Electronics department produce a wide range of customised and bespoke solutions to support the timing, televising, and organisation of Formula 1 events.

We architect and design embedded systems for F1 cars to provide team telemetry and driver/engineer audio, and to deliver on-board video and audio for F1 broadcasters and digital platforms. This is in addition to a variety of other electronics solutions designed by our inhouse team to support any aspect of an F1 event.

THE ROLE

We are looking for an enthusiastic, focus-driven team manager with a passion for all aspects of embedded electronics to lead an efficient team of systems, hardware, and embedded software engineers, and electronics technicians. You will need to have a solid background in electronics engineering, ideally with hands-on experience in the technical disciplines within the team.

Key functions of the role include the following:

- Take the lead on electronics developments being delivered by the team, being responsible for the full lifecycle through conception, design, development, testing, system integration and deployment
- Contribute to the architectural decisions and drive the technical decisions relating to electronics development
- Review designs to ensure quality, consistency, and adherence to the overall electronics architecture
- Provide planning and priorities, and interface with cross functional inputs to support successful design, development, and deployment
- Promote the usage of best practices in terms of development, testing and documentation
- Drive innovation and continuous improvement of technologies and methodologies to increase productivity and ensure technology standards are followed.
- Actively drive knowledge distribution to colleagues in and outside of your team

- Support and advise operational departments with their activities and duties with regards to provided solutions
- Provide input to department level budget planning. Manage team budgets as delegated by the Head of Department.
- Manage resource levels to deliver team objectives, undertaking recruitment as required
- Undertake team administration as required including performance reviews, race attendance and holiday planning, organising team training, and general team oversight in line with company policies.

Excellent communication skills as well as having the ability to prioritise, multitask, and plan effectively are essential.

You should be prepared to research and quickly learn new technologies, processes, strategies, and tools to meet project requirements.

OTHER

- To complete all mandatory training within specified timelines.
- To operate safely at all times in line with Company health and safety requirements.
- To undertake other duties within your capabilities as your Head of Department or Team Manager may assign to you from time to time.

Personal Specification

	Essential	Desirable
Qualifications	<ul style="list-style-type: none"> ▪ Educated to degree level (or equivalent vocational and industry experience) in electronics engineering (or suitable equivalent, such as computer science or embedded systems) 	TM
Experience	<ul style="list-style-type: none"> ▪ Strong background in the engineering domain ▪ Engineering design of products with electronic elements and components ▪ Previous team management or leadership role 	<ul style="list-style-type: none"> ▪ Development of embedded system software and OS ▪ Development of hardware for embedded systems in harsh environments ▪ FPGA development ▪ Working with networking and serial protocols (e.g., Ethernet, CAN, RS232); video encoding (e.g., H264) and transmission protocols (e.g., MPEG TS); and RF systems

		<ul style="list-style-type: none"> ▪ Architecting embedded systems ▪ Using MATLAB and Simulink
Knowledge & Skills	<ul style="list-style-type: none"> ▪ Excellent communication skills, being able to tailor information to the target audience ▪ Excellent planning skills, including the ability to prioritise and multi-task effectively ▪ Documentation creation for internal and external use 	<ul style="list-style-type: none"> ▪ Programming in C, Python, C++, C#, Java, VHDL, and Verilog ▪ Linux development in an embedded environment ▪ Development with the Xilinx MPSoC family ▪ Schematic capture and PCB layout of analogue, digital, and power electronics ▪
Personal Qualities	<ul style="list-style-type: none"> ▪ Be highly motivated and flexible to change ▪ Calm, logical approach to problem solving ▪ Operate effectively in a high pressured and challenging environment, yet have a methodical and structured approach to work ▪ Able to delegate effectively to empower team members, aiding their own development ▪ Feel comfortable providing constructive feedback by assessing individual's performance against team requirements 	
Other		<ul style="list-style-type: none"> ▪ Be willing to travel internationally (organised by the company) ▪ Hold a valid UK driving licence