Job Title: Embedded Engineer	**Location:** Hunmanby / Mansfield
Department: Engineering	**Contract:** Permanent
Reports To: Chief Engineer & Program Manager	**Direct Reports:** Engineering Project Managers

1.0 Job Summary & Role

Working as an individual or as part of a team, this embedded software engineering role covers the full software lifecycle including, requirements capture, design, development and verification. The role will involve developing software, primarily in embedded C for ARM Cortex M series microcontrollers, both at low level but also at application level and expose the engineer to a wide range of industrial control technologies.

2.0 Key Responsibilities & Main Duties

- Design and implement software of embedded devices and systems from requirements to production and commercial deployment.
- Translate the market requirements into technical product specification.
- Design, develop, code, test and debug system software, according the technical product specification
- Review code and design
- Interface with hardware design and development
- Interface with the PC software design and development
- Perform product testing on your own and others software as required.
- Fixing software issues and optimizing the products
- Write and maintain development documentation including specifications, test plans and design descriptions.
- Make use of the company version control system to write software in controller manner.
- Visit customer sites and attend training courses identified and provided by the company.

3.0 Internal & External Relationships

Engineering Management – take work tasks and direction from and report to

Test and Approvals department – the embedded engineer will work closely with the test and approvals team

Technical Support – assist technical support with more involved customer queries, and technical authoring support.

Commercial sales team – Support during development phase and requirements gathering.

4.0 Key Performance Indicators

- Attention to detail, able to work both individually as a part of a team and self-discipline required for software developing and testing.
- Produce clear and concise software documentation.
- High quality software development.
- Ability to define and work to timescales.

5.0 Essential/Desirable Factors

Knowledge	
Essential: - Expert in C - IT literate - Electrical principles	Desirable: - Other programming languages (C#, Javascript, HTMS/CSS) - Embedded Linux
Skills & Attributes	
Essential: - Familiar with stage gated / agile development approaches. - Comfortable collaborating closely with electronics engineers on embedded systems - Use to work to a high-quality standards. - Excellent team player with problem-solving and trouble-shooting capabilities - Used to define a task breakdown for a give piece of work and provide estimates. - Ability to translate requirements into a technical product specification. - Used to work in a high-pace environment. - Enthusiastic and optimistic.	Desirable: - Understanding of hardware
Experience	
Essential: - Embedded C code for ARM microcontrollers. - RTOS as well as bare metal developments. - Debugging C code	Desirable: - Knowledge of AC systems - Low level driver development - CAN J1939 - Ethernet - RS232/RS485 - IAR toolchain - MISRA C

- Source code build tools, bug tracker tools, source code repositories, etc. - Working in a high-volume manufacturing environment. - Full Product Lifecycle	
Qualifications	
Essential: BEng or above in Electrical and Electronic Engineering	Desirable:

Created by	**Dated Created**
Sergi Gomez / Chief Engineer	17/02/21