

Product Development Engineer

Reporting to Product Development Manager

The company Brigade is a trusted, multi-award-winning global market leader developing innovative vehicle safety systems, for commercial vehicles and mobile machinery. Our cutting-edge solutions prevent collisions and save lives. Our company culture is defined by ACTION, and these values are at its core.

We are Aspirational, We are Customer Centric, We are One Team, We Innovate, We Own It, Now. These values serve as guiding principles that shape the culture and behaviour of the organisation. These values encompass integrity, innovation, teamwork, customer focus and a commitment to excellence.

Purpose of Role The Product Development Engineer position will be mainly focused on the development of Brigade's core commercial vehicle safety and efficiency product range with a strong bias toward electronic engineering. The candidate will need basic knowledge of the technologies behind these products with good knowledge of the associated engineering principles.

The purpose of the role in the Research & Development and Technology Department is to provide both product development and project management capability and assist the Product Development Team in upgrades and new product design resulting in the development & verification of Brigade's Product portfolio.

This position will be predominantly at product level, requiring good understanding of defining and managing requirements, electronic and mechanical design, product verification and validation and with an appreciation for software development. The role requires the utilisation of cutting-edge technologies and engineering methods keeping Brigade at the forefront of technology and enabling Brigade to better manage and control its intellectual properties, whilst enhancing its cost effectiveness. The successful candidate will also be required to support the Quality team and Applications team in adapting current products for specific customer demands.

The role will be primarily supplier-facing, managing multiple suppliers and manufacturers in both high and low-cost countries, overcoming

cultural and language barriers to deliver new product in time for market. The position also extends to supporting our customers as needed.

The applicant will ideally have knowledge of automotive electronics design standards and quality control principles which are key to ensuring Brigade's product quality standards are met, however on-the-job induction and training will be provided. The ideal candidate will be required to have a proactive approach promoting Brigade's business ideals and customer & supplier relations while enhancing the Engineering team's technical knowledge.

Key Responsibilities

Functional

- Lead and manage product development throughout the product lifecycle
- Supplier liaison and management
- Requirements and engineering specification creation
- Product development and design for manufacturing
- Product verification and validation, both in-house and co-ordination of external resources
- Preparation of detailed component technical drawings, documentation and user manuals
- Aid the customers, sales and marketing on technical solutions and product support

Technology

- LCD display and Camera development technologies and principles
- Video and audio processing & interfaces
- Digital video & audio recording
- Object Detection systems based on radar, ultrasonic and camera imaging
- Acoustic alarms
- Analogue and digital circuit design and development
- Micro & digital signal processing systems
- Digital communication protocols e. g. CAN, I2C, SPI, RS232 or similar
- Software/ hardware integration and software engineering awareness

- Functional level troubleshooting and product fault finding down to PCB level

Person Specification

- 3 years Industry practical experience with electronics product development
- Knowledge of analogue and digital electronics including micro processing, DSP, video signal processing
- Awareness of software design, development or testing
- Knowledge of camera, optics, acoustics, LCD's and digital recording technologies
- Computer application skills: - Microsoft 365 Suite - Ele. & mech. CAD development tools
- Strong verbal and written communication skills for effective interaction.
- Decision-making skills, especially in high-pressure situations.
- Flexibility to adapt to changing circumstances and priorities.
- Strong organisational and multitasking abilities to manage multiple priorities effectively.
- Attention to detail in planning, execution, and follow-through.
- Proven track record of achieving and exceeding goals and objectives.
- Proactive, enthusiastic, and driven.
- Flexibility to work beyond normal business hours when required

Employee signature

Date.....

action this is how we do it...

