## Job Description: Senior Engineer – EDS (Electrical Distribution Systems – 2D Harness)



**Department:** Design, Electrical and Electronic Systems

**Job role overview:** To allow for the introduction of new and exciting automotive technology across our range of motorcycles, the Electrical and Electronic systems team is looking to bring in an experienced Electrical Distribution Systems (EDS) engineer to support immediate project requirements.

Main duties will relate to EDS 2D harness Design. Senior Engineers are expected to have significantly more experience, be capable of mentoring engineers, have a good understanding of wiring diagrams, chair work product reviews & meetings within the Company, including peer reviews and sign-off of EDS 2D harness designs when required.

Report to: Team Leader - Electrical Distribution Systems

Location: Hinckley, UK, LE10 3BZ

## **Duties and Responsibilities:**

- EDS project responsibility for new bike models and variants.
- Design and development of whole vehicle electrical distribution systems using Vesys 2.0 / Capital Essentials Design and Harness and release using PLM Systems.
- Interpreting technical drawings and specifications of a wide variety of electrical / electronic components while defining EDS designs.
- Justification of design decisions with released documentation for harness electrical hardware architecture, relays, fuses, wire sizes etc.
- Advising the mechanical (chassis) engineering team on the physical layout of wiring harness and associated electrical systems on the vehicle. Transferring this information into Vesys 2.0 / Capital Essentials 2D harness layout drawings and synchronising with circuit designs.
- Reading circuit drawings and be able to make changes if required.
- Tracking of project electrical issues, timing, risks, actions and interfacing directly with the project managers, manufacturing departments and chassis / powertrain / systems teams.
- Chairing internal electrical team meetings reviewing status of assigned projects.
- Design for EMC and provide support for pre-compliance vehicle level testing.
- Work with existing worldwide suppliers and identify potential new suppliers to ensure timely introduction of new components and harnesses.
- Coordination and reporting of vehicle level signoff testing and generating test reports for approval.
- Continual improvement to advance supplier relations, design procedures, advise best practice and improve quality and efficiency.
- Inspection/confirmation of wire harnesses to drawing and supporting on-bike routing assessment sessions to improve the harness fitment at later prototype stages.
- Closely support prototype and production build phases to ensure electrical issues are identified and resolved promptly.
- Reviewing technical service manual documentation relating to the vehicle electrical system.
- To undertake and assist with projects as required by your Manager.
- Any other duties as required by your Manager.

## Person Specification: Senior Engineer – EDS (Electrical Distribution Systems – 2D Harness)



	Essential	Desirable
Qualifications and	BEng or MEng in Electrical / Electronic	Docin abito
Attainments	engineering or have an HND level	
	qualification and proven relevant	
	experience	
Professional	Proficient in 2D and circuit EDS design	Knowledge of CAN
Experience and	using Vesys 2.0 Design and Harness	communication and familiarity
Skills	(or Capital Harness).	with tools such as CANalyser /
	(*)	CANoe (or similar).
	Proficient in Microsoft packages	
	including Excel, Word and Outlook.	Ability to interpret component
		specifications.
	Excellent trouble shooting skills.	•
		Previous experience of working
	High level awareness of automotive	within an automotive /
	electrical architectures and latest	manufacturing / industrial
	technological developments (within the	environment.
	public domain)	
	A good understanding of how electrical	
	systems work.	
	Francisco condition on automotive OFM	
	Experience working on automotive OEM	
Developelity and	design projects.  Self-motivated and resilient.	Continuous process
Personality and Motivation	Sell-motivated and resilient.	Continuous process improvement.
Motivation	Flexible and adaptable.	improvement.
	i loxible dia ddaptable.	
	Able to take instruction and work under	
	pressure to tight deadlines and agreed	
	timescales.	
	Excellent communication skills, clear	
	and concise written and verbal skills.	
	Landard and the control of the contr	
	Logical approach to problem solving.	
	Independent in applying solutions and	
	Independent in seeking solutions and proactively interfacing with all areas of	
	the business.	
	Working in a multi-discipline team	
	environment.	
Appearance and	Well presented and professional in	
Characteristics	approach.	
	Confident with chasing people for	
	information and not being afraid to	
	highlight risks.	
Circumstances	Flexible on working hours.	Willing to undertake UK and
		Overseas travel.