

Job Description: Temporary Senior HMI Engineer (12 month FTC)



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 & Electronic Systems department is looking to bring in talented, passionate, and driven engineers with specific HMI design experience to join our HMI team and support our future model development.

You will be responsible for the development of HMI's from early definition through to release for production programmes. You will create engineering deliverables such as wireframes, proof of concept prototypes, HMI logic layers, state diagrams. You will be expected to work closely with the Model Based Systems Engineering Team and Product Planning team.

Report to: Senior Engineer – HMI

Location: Hinckley, Leicestershire, LE10 3BZ

Duties and Responsibilities:

- For assigned feature sets, own the HMI UX & UI attributes from start to finish following the HMI Design lifecycle process.
- Manage detailed HMI model-based requirements, develop prototype and full production design implementations and ensure complete verification and validation. Some of this work could be with third party suppliers.
- Support existing and new HMI designs for each assigned feature/function
- Create visualizations of high-level ideas and explore suggestive directions of graphics
- Define visual directions and develop further style guides
- Conduct feature/function specific and benchmarking activities
- Create HMI Specification documents for features/function and support development handover
- Create and maintain Low/High fidelity wireframes and prototypes with regular reviews and input from wider business
- Facilitate and conduct user testing and working closely with the integration and validation team to plan feature testing
- Ensure HMI system design is software compatible
- Working alongside the Model Based Systems Engineering to understand the feature functionality
- Advanced knowledge of Adobe XD, Figma, Photoshop, Illustrator or similar design tools for UX and UI design
- To undertake and assist with duties as required by your Manager.

All Engineers will be expected to deliver a subset of the below:

- Prepare effective presentations to communicate technical information to non-technical professionals.
- Define and improve cost, quality and feature performance targets.
- Review designs to find new opportunities for cost and/or quality improvements.
- Maintain HMI specs timing plan and support Engineering teams.
- Manage and support supplier engagement.
- Demonstrate proof of concept to Product Owners for approval.
- To undertake and assist with projects as required by your Manager.
- Any other ad-hoc duties as required by your Manager.

Person Specification: Temporary Senior HMI Engineer (12 month FTC)



| | Essential | Desirable |
|---|--|---|
| Qualifications and Attainments | A degree in engineering discipline Or Product / UX / UI / HMI / HCI / Human Factors / equivalent apprenticeship / related qualification | Chartered Engineer |
| Professional Experience and Skills | Strong understanding of full UX Design Process HMI UX definition, concept creation and ideation Design prototyping and related tools Validation of UX concepts, data driven design methodologies Detailed specification creation and delivery for implementation Supplier management experience and working with cross functional teams Agile and waterfall methodologies Creation and management of graphical assets | Extensive work experience in HMI / UX Design Familiarity with automotive UX design constraints Complete knowledge of Product Development cycle from concept to launch completion Effective communication skills across all company levels and global suppliers Understanding of Model Based System Engineering approach |
| Personality and Motivation | Self-motivated and resilient. Flexible and adaptable. Able to work under pressure to tight deadlines and agreed timescales. Excellent communication skills, clear and concise written and verbal skills. Logical approach to problem solving. Role model to more junior engineers. | Continuous process improvement. |
| Appearance and Characteristics Circumstances | Well presented and professional in approach. | |
| | Flexible on working hours. | Willing to undertake UK and Overseas travel. |