Job Description: Senior Engineer / Lead Engineer – Model Based Control Software

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Department: Design, Electrical and Electronic Systems

Job role overview:
To allow for the introduction of new and exciting technologies across our range of motorcycles, the Electrical & Electronic Systems department is looking to bring in talented, passionate, and driven engineers at both **Senior & Lead Engineer level** to support our Model Based Control Software team and support our future model development.

Report to: Team Leader – Model Based Control Software

Location: Hinckley, Leicestershire, UK, LE10 3BZ

Duties and Responsibilities:

- Technical Lead for Model Based Control Software & embedded systems.
- Develop & manage Drive train software and torque control features.
- Review logical architectures, Requirements, FuSa requirements and convert these to software requirements, architectures, solutions & appropriate documentation.
- Review software architectures and solutions.
- Define & Review HSI and control system.
- Interface with suppliers to deliver robust:
  - o API's to hardware abstraction layers, board support packages etc & Basic SW
  - o Suitable operating systems.
  - o Accurate microcontroller loading estimations.
  - o Memory requirements and other key resources.
- Continual improvement and support of full lifecycle Control Systems process for use in chassis, powertrain, driveline, suspension, or HMI systems.
- Continually advance design procedures, advise best practice and improve efficiency.
- Management of Control Software to deliver on time, to cost and quality.
- Technical support to working groups and projects as appropriate.
- Interface to the test & Validation team to ensure appropriate DVP's and test coverage.
- Planning and prioritisation of project activities.
- Maintain traceability of software units within MBCS.
- Attend and disseminate seminar / conference information.
- To undertake and assist with duties as required by your Manager.

Person Specification: Senior Engineer / Lead Engineer – Model Based Control Software

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	Essential	Desirable
Qualifications and Attainments	BEng or MEng in Electrical / Electronic Engineering or Embedded Systems Engineering, and relevant experience.	Chartered Engineer
Professional Experience and Skills	Lead role in an automotive environment. Lead of full V-Cycle development, controls theory, requirements capture / management and test case generation. High proficiency in Matlab Simulink, logic development, auto-coding and debugging on target hardware. High proficiency in vehicle communication systems (CAN, LIN) design, development and simulation / analysis tools. High proficiency in embedded systems and electronics. Identification and resolution of technical issues.	Experience in leading projects following a safety critical (ISO26262) process. ASPICE process implementation and support. Working with E-Powertrain and Battery Management Systems. Practical experience with AUTOSAR development methodology. Practical experience in 8D technical issue resolution.
Personality and Motivation	Confident and able to work with minimal supervision to tight deadlines and agreed timescales. Excellent report writing skills, with a clear and concise communication style. Capable of presenting high-level technical reports to Management. Role model to more junior engineers.	Continuous process improvement.
Appearance and Characteristics	Well presented and professional in approach.	
Circumstances	Flexible on working hours. Willing and able to undertake UK and Overseas travel if required	