



Position Description

Job Title	Electrical CAD Engineer
Reporting to	Electrical Team Leader
Position Summary	<ul style="list-style-type: none"> • An Experienced CAD engineer responsible for the delivery of EDS components drawings (wiring harnesses & associated sub-systems) within the electrical team. • Proactive, enthusiastic personality that must take full ownership of the delivery of drawings to requirements and all issues related to that delivery.
Essential Duties and Responsibilities	<ul style="list-style-type: none"> • Design and engineering responsibility for Hybrid vehicle sub-systems to include one or more of the following: <ul style="list-style-type: none"> ○ EDS • Responsibilities include but are not limited to: <ul style="list-style-type: none"> ○ Requirements capture ○ Concept development ○ Design calculations and analysis ○ FMEA creation and update ○ DVP creation ○ Create design documentation and/or guidance of CAD designers as required. ○ Design for manufacture reviews ○ Supplier management • Represent sub-systems in engineering and management reviews (report progress against key activities, identify risks/shortfalls and recommend resolutions) • Set best practice for component and system design utilizing industry standard tools and techniques. • Hands on approach required to support other engineers key tasks in times of peak workload.
Education, Specialized Training and Experience Required	<p>Educated to degree level in a relevant Engineering subject. The candidate should be able to demonstrate the following experience.</p> <p><u>Essential</u></p> <ul style="list-style-type: none"> • Well versed in standard automotive product development tools and techniques. • Proven history of delivery of vehicle systems from concept to launch (preferably in a powertrain environment) to include the specification

of systems and components.

- Detailed experience in the use and correct application of the following tools and techniques:
 - FMEA
 - FE analysis.
 - DVP
 - VAVE
- Experience in managing multiple projects for engineering and/or external suppliers
- EMI/EMC
- 12V charging systems

Preferred

- HEV/EV design and development experience / knowledge of main components.
- Experience in the following tools and processes:
 - Design for Manual Assembly (DFMA)
 - VA/VE, TCM or other cost management tool,
 - AutoCAD LT
 - Solidworks
 - Vesys