



## Position Description

Job Title	Mechanical Engineer
Reporting to	Mechanical Engineering Team Lead
Position Summary	<ul style="list-style-type: none"> <li>• An automotive experienced product design engineer responsible for product development from the prototype level up to pre-production and production levels.</li> <li>• Manufacturing engineering support as required for production launches &amp; builds; travel to production sites will be required.</li> <li>• A proactive, detail oriented, enthusiastic personality that must take full ownership of the deliverables to requirements and all issues related to that delivery.</li> </ul>
Essential Duties and Responsibilities	<ul style="list-style-type: none"> <li>• Engineering responsibility for HEV / EV product development includes the following:               <ul style="list-style-type: none"> <li>○ Production mounting design for components and sub-systems</li> <li>○ Validation of above mounting designs</li> <li>○ Thermal and fluid system development</li> <li>○ Design for Manufacturing and Assembly</li> <li>○ Design for Service</li> <li>○ Document preparation for PDP phase releases</li> </ul> </li> <li>• On-site production launch support – travel is required.</li> <li>• Develop and manage supplier relationships.</li> <li>• A hands-on approach is required to support deliverables.</li> </ul>
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"> <li>• Well versed in standard automotive product development tools and techniques.</li> <li>• Solidworks 3D CAD modeling software at the advanced level.</li> <li>• Use of CAD PDM systems in an automotive environment.</li> <li>• Manufacturing and assembly drawings using the above CAD software utilizing 3D CAD Master &amp; GD&amp;T.</li> <li>• Proven history of delivery (five years minimum) of vehicle</li> </ul>

systems from prototype to launch (preferably in a powertrain environment) and support of product manufacturing.

- Detailed knowledge of and experience in the derivation and application of GD&T, significant and critical characteristics to component drawings.
- Detailed experience in the use and correct application of the following tools and techniques:
  - DFMEA
  - PFMEA
  - DFM/DFA (Design for Manufacture & Assembly)
  - Design for Service
  - DVP
  - APQP

Preferred

- HEV / EV design and development experience/knowledge of main components.
- Ability to create and run FEA simulations for component and assembly level stress and modal behavior.
- Familiar with 3D Via Composer or equivalent software tool
- Experience in VAVE or other cost management tools.