



**Responsibility and Authority (Job Descriptions)**

<p><b>Job Title</b></p>	<p><b>Senior Controls Software Engineer</b></p>
<p><b>Reporting to</b></p>	<p>Director of Hybrid Power Electronics</p>
<p><b>Essential Duties and Responsibilities</b></p>	<p>This senior engineer will function as a member of the Controls Group, with the following duties:</p> <ul style="list-style-type: none"> <li>• Hands-on development and implementation of advanced motor control and power electronics algorithms.</li> <li>• Hands-on development of simulation environment suitable to assisting development and validation of embedded code.</li> <li>• Capture of requirements from internal/external customers and developing them into achievable software requirements.</li> <li>• Review of software developed by peers.</li> <li>• Risk assessment via DFMEA.</li> <li>• Development of processes, work instructions and guidelines for the software development life-cycle.</li> <li>• Leadership in implementation of software tools for facilitation of change management and configuration control.</li> <li>• Leadership on developing verification and validation test plans and supervising testing.</li> <li>• Contribution to proposals to customers, especially technical content.</li> <li>• Interaction with customers during quote process, visits to customer sites, and visits by customers.</li> <li>• Pursuing of patent protection for Azure Dynamics technology where appropriate.</li> <li>• Contributing to the teaching and professional development of other engineers.</li> <li>• Other related duties as assigned.</li> </ul>
<p><b>Education, Specialized Training and Experience Required</b></p>	<p><b>Skills/Knowledge/Abilities:</b></p> <ul style="list-style-type: none"> <li>• Previous experience in implementation or management of software configuration and change management for a development team is required.</li> <li>• Embedded system test and debug experience is required, ideally in the field of power electronics and motor control.</li> </ul>

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- Fluency in C is required.
- Proficiency in a model-based development environment using tools such as MATLAB/Simulink/Stateflow, Real-Time Workshop, and Embedded Coder is desired.
- Experience in leading software DFMEAs is desired.
- Experience working within a development process compliant with CMMI or Automotive SPICE is strongly preferred.
- Knowledge of Hybrid Electric Vehicle and/or Distributed Generation markets, customer requirements, and applications is strongly preferred.
- Team leadership experience is strongly preferred.
- A high level of initiative and proactiveness is required.
- Good communication and presentation skills are required.
- Strong organizational and time management skills are required.
- Strong analytical capacities are required.
- Occasional travel is required.

**Education/Certification:**

- A master's degree in electrical engineering or computer science and a minimum of 5 years related experience.