

Responsibility and Authority (Job Descriptions)

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

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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 desired.
- A high level of initiative and pro-activeness 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.