

Embedded Software Design Engineer - Motor Control

Department: R&D Engineering – Fort Myers, Florida headquarters

JOB PURPOSE

To develop software for AC and PM Propulsion Motor Control

JOB RESPONSIBILITY SUMMARY

- Develop motor control software for electric propulsion systems
- Work with Hardware Engineers to develop control algorithms
- Coordinate resolution of field problems associated with reliability and performance of firmware
- Perform maintenance tasks on existing code

REQUIRED KNOWLEDGE, SKILLS, & ABILITIES

Education/ Licensure/ Credentials

- Bachelor's degree in EE, ME, CE, or CS or foreign equivalent based on academic credentials evaluation, training and/or experience

Experience

- Embedded software experience with C and assembly programming

Special Knowledge/ Skills

- Proficiency with embedded software development and debug tools (JTAG, ICE, logic analyzers, oscilloscopes, and related test equipment)
- Excellent communication skills (written, and verbal)
- The ability to read/understand module schematics and use for software debug and test
- The ability to work with high voltage, high current systems
- Experience with modular software design, development, and testing techniques and procedures
- Must have excellent debugging and problem solving skills
- Must be motivated and able to work with minimal direct supervision.
- Must be able to work with a multi-disciplined design team

PLUS

- Understanding of AC motor control theory
- Experience with software development for inverters
- Experience with Texas Instruments TMS320F28xx series DSPs
- Experience with Infineon processors
- Experience with Actel Fusion FPGA programmable logic devices
- Experience with CAN, CAN tools (Vector) , IP based protocols, RS232/RS485
- Ability to interface directly with customer
- Some travel will be required

HOW TO APPLY

Please Contact: ATS Human Resources
Email Address: hr@americantraction.com
Phone Number: (239) 768-0757

This job description supersedes all previous job descriptions. The job description is intended to be a tool to describe the primary purpose of the job and the KEY duties and responsibilities. The job description is not to be construed as an exhaustive list of all duties and responsibilities required. Management has the right to add to or change the job responsibilities at any time. All personnel may be required to perform duties outside their normal responsibilities from time to time, as needed.