



D & V Electronics is a Manufacturer and Supplier of state-of-the-art test solutions for the Automotive and Aerospace Electric Vehicle Markets. Our USA facility located in Auburn Hills, MI and Binghamton, NY is currently looking for a Sr. Embedded Software Engineer to be responsible to develop and implement leading edge embedded software for D&V emulator-based products. If your qualification and experience meet our need, we invite you to apply for the following position:

Position Title: Sr. Embedded Software Engineer - USA

Purpose:

- Develop and implement leading edge embedded software for D&V emulator-based products. To research and develop 'next-generation' concepts and technology, targeting future product and / or innovation development.

Responsibilities:

- Design embedded software for microcontroller-based systems in C
- Develop interfacing logic to enable functionality (DSP & FPGA)
- Lead the integration of systems for high-complex mixed-signal applications
- Establish functional test plans/procedures against design(s), and perform functional verification
- Plan and execute validation and verification requirements
- Use computer assisted design software and tools to perform design tasks
- Participate in design reviews, project meetings and time/cost budgeting
- Liaise with the customer, vendor, internal engineering, and manufacturing; to ensure the product meets the customer requirements and standards
- Ability to travel 10%

Education/Minimum Requirements:

- B.S. Degree in Electrical Engineering, Computer Engineering, Embedded Software Engineering or similar field, Master's degree or higher is preferred
- 10+ years demonstrated experience in with software, modeling/auto coding and simulation tools such as MATLAB / Simulink
- Knowledge with Analog Devices SHARC series DSPs and Microchip PIC32 microcontrollers
- In depth experience in CAN, CAN-FD, UART and TCP/IP
- Knowledge of motor control software and hardware
- History with implementation in both bare metal and abstracted hardware designs
- Good working experience on analog, digital and power hardware designs
- Hands on experience on functional testing, debugging, lab equipment (oscilloscopes, waveform generators and logic analyzers) and all documentation
- Preferred experience with basic microcontroller-based product schematic capture and PCB layout with Altium
- Experience with Source Control products such as Git. A history of working with Structured SW development methodologies
- Results oriented, self-motivated, and able to work with minimal supervision
- Strong verbal and written communication skills
- Excellent problem-solving, organizational, and interpersonal skills

Desirable:

- Microcontroller and FPGA interfacing experience
- Familiarity with Altera Cyclone and Xilinx Kintex devices
- Vector CANalyzer skills
- PCB rework skills

D & V Electronics values their employees. We encourage life-long learning and foster employee personal growth. If you're someone who enjoys working in a creative and innovative work environment, and would like to join our team, please submit your resume and covering letter to: careers@dvelectronics.com

We thank all applicants for their interest in our organization, however; only those selected for an interview will be contacted.