



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 at Auburn Hills, MI and Binghamton, NY is currently looking for a Firmware- FPGA Engineer to be responsible to develop and implement leading edge firmware designs 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: Firmware – FPGA Engineer**

**Purpose:**

- To research and develop ‘next-generation’ concepts and technology, targeting future product and / or innovation development

**Responsibilities:**

- Develop and implement detailed FPGA and microcontroller/ firmware designs
- Develop product firmware, meeting safety, reliability, cost, manufacturing, and performance requirements
- Develop and maintain firmware life cycle on D&V products
- Design embedded software for microcontroller-based systems in C
- Design FPGA firmware in VHDL
- Establish functional test plans/procedures against design(s), and perform functional verification
- Plan and execute validation and verification requirements
- Develop interfacing logic to enable functionality (FPGA)
- Lead the integration of systems for high-complex mixed-signal applications
- Preparation of technical and regulatory documentation, including drawings, and production documentation
- 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

**Education/Minimum Requirements:**

- Degree in Electronics / Electrical Engineering, Master’s degree or higher is preferred
- 5+ years demonstrated experience in full life cycle of firmware development, verification, and certification preferably in custom testing equipment
- Good working experience on analog, digital and power hardware designs
- Experience with hardware/firmware integration
- Experience in VHDL coding for FPGA preferably for devices (typically Altera or Xilinx)
- Hands on experience on Microchip and Analog Sevices Sharc controller/DSP/FPGA based hardware systems
- Must have an understanding of electronics schematics
- Experience in generation of acceptance test procedure (ATP)
- Must have hands on experience on simulation/design validation tools, preferably Signal Tap
- Hands on experience on functional testing, debugging, lab equipment and all documentation
- Strong organizational, analytical, and problem-solving skills required
- Results oriented, self- motivated, and able to work with minimal supervision

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](mailto:careers@dvelectronics.com)

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