



Zomega Terahertz Corporation

2121 Sixth Ave, Troy, NY 12180

Job Posting: Electrical Engineer

Zomega Terahertz Corporation, a leading developer of terahertz instrumentation for science and industry, is looking for a talented electrical engineer or computer engineer with specialized knowledge of embedded systems to implement system controllers and digital signal processors for scientific instrumentation. The successful candidate designs, prototypes, implements and tests embedded systems for scientific instrumentation (terahertz systems), from signal acquisition and processing to motion control and computer. The candidate should be adept at learning new fields and techniques and be a strong team player as a subsystem designer and builder.

Responsibilities:

- Collaborate with scientists and engineers to specify embedded system requirements
- Work with software engineers to develop mixed-signal embedded system architectures for various sensors
- Design, prototype and implement new embedded systems for digital signal acquisition and motion control
- Develop validation testing of new controller hardware
- Develop firmware for low-level hardware interfaces (*e.g.* digital/analog I/O), data analysis and storage, and communications protocols (USB, I2C, RS232, RS485)

Requirements:

- BS in Electrical Engineering, Computer Engineering or related field
- At least 2 years experience working with embedded systems.
- Must be familiar with Analog, Digital and Power circuits.
- Hands-on experience with circuit design, simulation (PSpice etc), and board layout software (OrCAD etc).
- Hands-on experience with prototyping, testing, and debugging electronic circuits.
- Experience with microcontroller peripherals and systems (*e.g.* PWM outputs, boot loaders, A/D converters, watchdog timers, interrupt and trap functions, serial communication, etc.).
- Experience with development and debugging tools (*e.g.* source level debuggers, oscilloscopes, logic analyzers, multi-meters, etc.).
- Experience with various positional sensors and sensor-less control.
- Familiarity with techniques such as digital filters and FFT.
- Familiarity with control systems.
- You must also have experience in full life cycle development, from design and prototyping through delivering systems into production.

Zomega Terahertz Corporation is an Equal Opportunity Employer.

Send a cover letter and resumes to:

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About Zomega Terahertz Corporation

Zomega Terahertz Corporation is focused on developing and deploying Terahertz-based technology solutions for both the public and private sector. We produce both pre-designed and custom systems for Time Domain Spectroscopy (TDS) and CW applications in both point measurement and imaging modalities, including the world's first handheld THz spectrometer: the mini-Z 1000. In addition, we have strong collaboration ties with the Center for Terahertz Research at Rensselaer Polytechnic Institute, including development projects to commercialize an air-photonics based system that will span the entire THz gap.

For more information on Zomega, please visit our website at <http://www.z-thz.com/>