

# Software Engineer

Sydor Technologies LLC — Location: Rochester, New York

## COMPANY OVERVIEW

Sydor Technologies ([www.sydortechnologies.com](http://www.sydortechnologies.com)) is a global leader providing comprehensive, customized solutions for the most complex measurement challenges in the defense, energy, security and research industries. We pride ourselves on being a trusted, collaborative partner for our customers while solving technical problems with innovative solutions. Sydor's US based operations specialize in high-speed imaging systems and diagnostics. The company's UK operations specialize in ballistic and impact testing systems, as well as scoring systems. The company operates in 33 countries around the world with its world headquarters located in Rochester, NY.

Sydor Technologies is a high growth, small business, focused on growing organically as well as through strategic acquisitions. The company has been featured as one of the fastest growing companies in Rochester (NY) Top 100 and in the top 25% of Inc. Magazine's 5000 fastest growing companies nationwide. Our success is a testament to our employees and their commitment to customer focus, team work and high performance. Our employees are the best and the brightest in the industry and are the company's greatest asset.

## JOB OVERVIEW

- Sydor Technologies designs and builds diagnostic systems and instrumentation for research in space, time and energy. Our customers range from university level to national laboratories, Department of Defense and NASA. The Company is currently involved in several development projects that would readily benefit from a self-motivated engineer with experience in all areas of embedded software design and cross-platform development tools. Responsibilities of the position include:
  - Take part in software architecture planning for new and existing products
  - Actively implement new features and bug fixes to the firmware code base across all products
  - Actively develop new GUI applications using cross-platform languages such as Mono and QT
  - Develop system and functional testing to meet product requirements
  - Take the lead in managing the transfer and sharing of code repositories with external partners
  - Work with a multi-discipline engineering team to analyze and debug functional issues to meet product requirements
  - Continuously evolve all aspects of software development/testing through process documentation and improving efficiency
  - Maintain and deploy the development environments and tools to ensure consistent code quality across the team
  - Navigate multiple project schedules to meet critical milestones

## Required Skills

- Experience in developing for embedded Linux (device drivers, BSP, make files, Zynq)
- Strong (> 3 years) background in embedded C/C++ programming
- Troubleshoot embedded system functionality to component level using oscilloscopes and other test/measurement instruments
- CPLD/FPGA programming using VHDL
- Proficiency in programming interfaces such as Serial, Ethernet, SPI, DMA, Gigabit Transceivers and USB
- Experience with cross-platform GUI development using Mono or QT
- Strong focus on project priorities and ability to work with minimal supervision
- Proficiency with source control systems (Git preferred, Perforce optional)

## JOB OPENING: Software Engineer

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### Desired Skills

- Experience with real-time OS (RTEMS, FreeRTOS, uC)
- Expert knowledge of Xilinx Vivado and Software SDK
- Practical understanding of control loops and PID
- Develop system and functional tests as needed

### Accountabilities

- Provide sound engineering solutions that meet technical requirements
- Use industry best practices throughout the software development cycle
- Effective communication with external customers and partners
- Commitment to improving the team through new and improved capabilities/processes

### Qualifications

- Minimum a B.S. in Computer Science or Computer Engineering
- Minimum 5 years of experience in relevant engineering fields.

**Submit cover letter and resume/CV to [OPPORTUNITY@SYDORTECHNOLOGIES.COM](mailto:OPPORTUNITY@SYDORTECHNOLOGIES.COM).**

***Sydor Technologies is an equal opportunity employer: "M/F/D/V – EOE".***