

The Embedded Muse 114

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Editor's Notes

The Embedded Muse will be on hiatus during the summer; the next issue will run in August. I'll be off sailing so will be even slower than usual in responding to email!

The usual panic means this issue is nearly content-free; for that I apologize, but did want to get the job listings out for the sake of our employment-challenged colleagues.

I tried to order a few parts from Defender Industries via their web site recently. Check out how \$29.99 plus \$53.94 adds up to something an order of magnitude larger than the US's national debt: <http://ganssle.com/misc/defender.jpg>

At least they didn't charge shipping or tax!

Here's an interesting – and I hope not terribly abusive to the insect – embedded application. A Giant Madagascan Hissing Cockroach controls a mobile robot. What will people think of next? <http://www.conceptlab.com/control/>

And to everyone – have a great summer!

Jobs!

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Let me know if you're hiring firmware or embedded designers. I'll continue to run notices for embedded developers as long as the job situation stays in the dumper. No recruiters please.

X-Rite in Grand Rapids, MI is looking for a Senior Firmware (Embedded Software) Engineer Please direct your responses to: WWW.XRITE.COM or contact Paul Newton: PNewton@XRite.com

The primary role of this position is to develop embedded software to satisfy product functional and performance requirements and to develop and improve the systems, methods and processes used to accomplish the task. The Senior Firmware Engineer has technical responsibility for firmware functional requirements through the full product development life cycle from detailed analysis and design through verification and release. Must identify, analyze and resolve firmware and system functional deficiencies, and develop and implement corrective actions.

Requirements: We are seeking an individual with five-plus years of firmware development experience in a product development environment, plus a Bachelor's degree in Electrical or Computer Engineering. Knowledge of software development for real-time and embedded microcontroller-based systems is essential. Experience and training in a majority of the following areas are required; Software Requirements Analysis, Software Design, Software Documentation, Software Debugging, Software Testing, Cross-platform Development, Design Control Methods, Basic Electronics, Communications Protocols, Timing Analysis, and Algorithm Development.

Netrino needs two embedded programmers with C++ experience (only encapsulation will be used) for a short term project implementing an ARM-based medical device.

Applicants should contact Michael Barr <mb05@netrino.com>. Familiarity with state machines desired. Work can be done mostly remotely, but may involve some travel to Florida..

Zarlink Semiconductor has two jobs:
INTERMEDIATE SOFTWARE DESIGNER
SENIOR SOFTWARE DESIGNER /ARCHITECT

The positions are in Ottawa, Ontario. For both positions we are particularly interested in degreed engineers (EE preferred) with system on a chip (SOC) and MIPS core experience. Further information can be found on the careers page of our website at: <http://careers.zarlink.com>

We're looking for a mid-level firmware engineer here at FEI-Zyfer (www.fei-zyfer.com).

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The ideal candidate will have 5-8 years of embedded C programming experience, a BS or better in CS or EE, and must be a US citizen. Familiarity with precision timing and/or GPS is a plus. You can see the position writeup at <http://www.fei-zyfer.com/careers.html>

Phoenix International® an innovative technological leader in the custom design and manufacturer of electronic controls, displays and sensors for the OEM market is currently recruiting for the following position: Embedded Software Engineer. BSEE degree (or closely related technical degree) with a minimum of 3 years of experience in embedded Software Design using microcontrollers such as Siemens c16x, Motorola HC11, Power PC, etc. Must have experience in using and/or developing SW engineering processes such as project planning, life-cycle process and configuration management. Proficiency in C language programming, communications protocols such as CAN and experience in software quality assurance methodologies and understanding of real time OS (Nucleus, Threadx, etc.) is also required. Experience in automotive/off-road environments and/or hydraulic controls is desired. Email your resume and cover letter to kennedyjeffn@phoeintl.com

SigmaTel in Austin, TX, is looking for a Firmware Developer to design and implement firmware for SOC MP3 Audio Decoder group.

- * Excellent C programming skills
- * 4 years real time embedded system software design experience—not just maintenance or support experience

Applicable experience in 3-4 areas below is required:

- * Experience with software development for ARM core and or DSP56k core
- * USB
- * SCSI protocol
- * File systems
- * Hard drives
- * Flash media
- * Display drivers
- * USB Mass Storage Class Devices experience a plus
- * PTP—Picture Transfer Protocol and/or MTP—Media Transfer Protocol
- * Familiarity with audio and/or various audio compression formats such as MP3 and WMA (not an algorithms expert)
- * Ability to review/debug assembly required. Ability to implement a plus.

See <http://www.sigmatel.com/corporate/jobs/jobs.htm>

Joke for the Week

An amusing, not necessarily true, thought from Rick Anthony:

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Reusing software is a lot like reusing toilet paper.

About The Embedded Muse

The Embedded Muse is an occasional newsletter sent via email by Jack Ganssle. Send complaints, comments, and contributions to him at jack@ganssle.com.

To subscribe, send a message to majordomo@ganssle.com, with the words “subscribe embedded *your-email-address*” in the body. To unsubscribe, change the message to “unsubscribe embedded *your-email-address*”.

The Embedded Muse is supported by The Ganssle Group, whose mission is to help embedded folks get better products to market faster. We offer seminars at your site offering hard-hitting ideas - and action - you can take now to ***improve firmware quality and decrease development time***. Contact us at info@ganssle.com for more information.

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