Linden,
I am looking for a Junior Embedded Software Engineer at UQM Technologies. UQM Technologies (UQM) is an innovative, aggressive, leading edge motor and controller manufacturer. We design, build, test, and manufacture brushless permanent magnet motors and controllers for systems ranging from 100 W to over 100 kW. We also test our motor/controller systems in the electric (and hybrid electric) versions of: wheelchairs, scooters, cars, passenger vans, SUVs, commercial buses, military Humvees, small and large tractors, utility all terrain vehicles, unmanned ground combat vehicles, as well as high speed flywheels and fuel cell compressors. Past and present customers include: Ford, GM, Ballard, John Deere, BMW and many others.

One of the many advantages of working at UQM is that after you develop embedded software for one of the many electric vehicle systems, you'll get to test it out in the prototype vehicle! UQM has one of the best prototype electric and hybrid electric vehicle facilities in the country. Another advantage of working at UQM is that all employees wear many different hats (i.e. do many different jobs), which is both challenging and exciting.

We use the Motorola 68332, TI 24x, TI24xx, and are transitioning to the TI28xx. We have developed our own RTOS (based off of uCos), but will be transitioning to TI BIOS.

The qualifications are: a good C programmer, knowledge of assembly, knowledge of hardware, knowledge of electric circuits, and an enthusiastic hard worker. Perhaps a past/present student that did well in your class (BTW- looks like a great set of classes). Please let me know if you can recommend anyone.

Thanks,

Carlo Kopf
Senior Controls Engineer
UQM Technologies
7501 Miller Drive
Frederick CO, 80530
(just north of I-25 and Hwy 52)
303-215-3490 (W)
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p.s. I am also looking for a Senior Embedded Software Engineer.
National Semiconductor in Longmont, CO is looking to hire a new college grad for a full time systems engineering position in the Information Appliance division. Only BS/MS candidates completing their degree in EE or ECE between May 2002 and May 2003 will be considered.

Projects within the group span board design, debug tool design, signal integrity analysis, new silicon turn on and debug, software development at the driver and BIOS level, and software test and evaluation of various operating systems for new system designs.

A formal job description follows, but candidates should possess the following abilities:
1. Smart problem solver
2. Good communication skills/personable team player
3. Interested in board level design
4. Knows logic design, some transistor physics, fields & waves, and other basics.
5. Interested in lab debug and has used scopes and logic analyzers
6. May have x86 ASM experience
7. May have computer architecture experience
8. Can think at a systems level.

Interested parties should send their resumes (pdfs only) to deanna.demarco@nsc.com.

**Formal job description**
System Design Engineer: This individual will participate in the design, development, and debug of Information Appliance reference designs and participate in system level architecture of future CPU/chipsets. System designs will support CPU/chipset evaluation or provide debugged reference designs for customer use. This individual should be able to work with minimal guidance and will enter schematics, work with a layout designer to layout PCBs, perform signal integrity simulation, debug new designs, perform engineering tests, and provide design documentation. The ideal candidate will have a strong interest in high speed digital board design, system design, signal integrity simulation/analysis and x86 architecture. Additionally, knowledge regarding the operation of PCI, SDRAM, and DDR SDRAM and ability to use HSPICE for board level SI simulation is desired.