Dear CSE Students:

Welcome to the eighth newsletter of 2013.

**News from the Undergraduate Program:** Have a great summer! Congratulations and good luck to all graduating seniors!

**News from the Graduate Program:** Congratulations to all of you who are graduating this semester. Job well done! If you will be defending and graduating in Summer or Fall 2013, please review the College of Engineering Thesis/Dissertation Format Guide. The guide is available on the College website under Student Services/Graduation [http://www2.eng.usf.edu/studentServices/graduation.htm](http://www2.eng.usf.edu/studentServices/graduation.htm) or you can pick up a hard-copy in Catherine Burton’s office. Other important deadlines: **Summer Graduation:** For those of you planning to graduate this Summer, the deadline to turn in your Application for Graduation AND the Graduation Checklist WAS Friday, May 4, 2013. **Please** check the CSE Calendar of Events on a regular basis for all deadlines and events.

Attached are announcements for the following (please note that this listing does **not** imply University or Department endorsement in any way):

- Robert Noyce STEM Scholars Program
- Internship opportunities at Moffitt Cancer Center
- Coordinator opportunity at CMG Summer Youth Program
- Intel Architecture Group looking for an undergraduate intern
- Time, Inc seeking full-time Java Developer
- Zeppelin Systems USA seeking two Software Engineers

Also, be sure to like our page on Facebook (USF Computer Science and Engineering) and connect with our alumni page on Linkedin for current announcements and job opportunities.

Regards,

Ken Christensen
Director of the Undergraduate Program (and Newsletter Editor)
Email: christen@csee.usf.edu

The archive of old newsletters can be found at http://www.csee.usf.edu/newsletter
Robert Noyce STEM Scholars Program

The University of South Florida (USF) Robert Noyce Science, Technology, Engineering, and Mathematics (STEM) Scholars program will provide $30,000 stipends to 31 graduating seniors, recent graduates, and career changers who are interested in earning their teaching credentials in mathematics or science by enrolling in a one-year accelerated Masters of Arts in Teaching (MAT) program as a full time student. The stipend is intended to cover the cost of attendance (i.e., tuition and fees) and other expenses. In return for this stipend, Robert Noyce STEM scholars will commit to teach for at least two years in one of the following school districts: Hernando, Highlands, Hillsborough, Manatee, Pasco, Pinellas, Polk, or Sarasota.

Students who are interested in applying for the scholarship can contact:

Michael DiCicco, Program Manager
University of South Florida
4202 E. Fowler Ave, EDU105
Tampa, Fl 33620
Phone: 813-974-9055
Email:mdicicco@usf.edu

The objectives of the USF Robert Noyce STEM Fellows program are to:

- recruit content knowledgeable STEM professionals to participate in a state-approved initial teacher certification MAT program for mathematics or science at the secondary level (grades 6-12),
- prepare STEM professionals to be effective mathematics or science teachers of diverse learners in one of the following Tampa Bay area school districts (Hernando, Highlands, Hillsborough, Manatee, Pasco, Pinellas, Polk, or Sarasota),
- provide pedagogical supports to USF Robert Noyce STEM Fellows throughout their first two years of teaching and engage USF STEM Fellows in ongoing professional development through non-coursework activities and experiences.

STEM professionals selected for this program will have demonstrated evidence of subject matter knowledge based on the degree obtained or identified coursework in appropriate content areas. These individuals will participate in a common core of education and disciplinary specific pedagogical courses designed to help them translate their subject matter knowledge into useable forms for teaching and encouraging secondary students to excel in the areas of mathematics or science. Fellows will be expected to have the following:

1. a bachelor’s degree in STEM discipline (mathematics, biology, chemistry, engineering, etc.) or its equivalent;
2. a 3.0 (“B”) on a 4.0 scale average or better in all work attempted while registered as an upper division student (usually last two years of coursework) working for a baccalaureate degree, or a 3.0 on a 4.0 scale average of graduate work;
3. passing score on the Florida Teacher Certification General Knowledge Test or appropriate Graduate Records Exam scores; and
4. demonstrated subject matter competence with evidence of appropriate coursework in mathematics or science.

In addition, potential USF Robert Noyce STEM Scholars must demonstrate an interest in teaching secondary school mathematics or science, demonstrate an interest in teaching a diverse student population, and participate in out of class learning experiences encourage by the program.

_______________________________________________
ENGCareers mailing list
ENGCareers@mailman.rc.usf.edu
http://mailman.rc.usf.edu/mailman/listinfo/engcareers
Internship Opportunities at Moffitt Cancer Center

There is a position for a Jr/Sr. who has good programming skills in C++. The job is with the imaging group and involves building code to extract features from images. The algorithms are well defined, the images are Lung CT in standard Dicom format. Image processing experience is a plus.

Please contact Larry Hall (hall@cse.usf.edu) with a resume as soon as possible.
Coordinator – CMG Summer Youth Program

Job Description:

**Position Title:** Volunteer & Program Coordinator – CMG Summer Youth Program

**Program Description:** The Computer Mentors Group STEM Corps Summer Program is seeking a program coordinator to assist in running a computer summer camp for high school aged youth. The position is part-time and temporary for a 6-week period beginning June 3rd and running for 6 weeks.

**Role:** This position will be the lead “go to” person for the summer STEM Corps Program. The way the program works is that students will earn a Microsoft user certification, and then work on a technology project for a local non-profit. Projects can include websites, videos, e-marketing, and Access database projects, but at least one project will include a simple phone application. This position will double as one of the five mentors available for up to 15 students.

**Responsibilities & Duties:**
- Interview student applicants and choose from among the qualified applicants
- Set up computer lab environment for the summer computer camp
- Assist in soliciting local non-profits in the 33605 and 33610 zip codes for additional projects
- Solicit IT professionals for career presentations, and college students to become volunteer technology mentors
- Double as a technology mentor assisting youth to obtain certification and complete their projects.

**Compensation & Hours**
- Up to $20/hr.
- Position will work 6 hours daily for 6 weeks
- Background check required

**Qualifications:**
- Good knowledge of computer software including Microsoft Office products
- Ability to develop simple websites
- Ability to create simple web applications a definite plus
- Programming ability and graphic design also a plus
- Must LOVE to work with Youth

**Work Location:**

2802 E. MLK Blvd
Tampa, FL. 33610

**How To Apply:**
Send resume to Executive Director Ralph Smith via email at RSmith@computermentors.org.
Intel Architecture Group looking for an undergraduate intern

Priority will be given to USF for an undergraduate intern to join us in Hillsboro, OR for 6 – 9 months. We are looking to hire very soon, the internship will begin in May.

This will be a great experience for the right candidate, some benefits:

- Great internship program – summer intern Olympics (against Nike), intern field trips, networking opportunities
- Lots of learning opportunities
- Use of the latest Windows tablet hardware and software

At a high-level we are looking for:

- An all-star student
- Excitement to learn and ability to succeed in a fast-paced startup like environment
- Passion for hardware/software interaction
- Some experience with FPGAs
- Strong understanding of computer architecture and OS fundamentals
- Strong software development skills in C and C++. Python is a plus.
- Experience in driver development/debugging is a plus
- Preferably the candidate should have some low-level hardware, software, or system debugging experience

The primary role will be Intel driver validation and debugging at the kernel and application levels.

There will also be the opportunity to gain exposure to:

- Agile/Scrum Methodologies
- Continuous Integration
- Pre-Silicon Validation
- Source Configuration Management

Contact:

Michael Kubacki
Intel Architecture Group – Mobile Communications Group
(503) 473-6271
michael.a.kubacki@intel.com
Job Description

As a member of the Applications Development Group, the Java Developer is primarily responsible for application design & development. This position will also be responsible for support and maintenance of respective applications.

This person will work on a team of developers implementing software. This person should have a strong working knowledge of Java development. The projects will be fast paced and technically rewarding. The person will collaborate with other groups including business clients, front-end developers and infrastructure/system developers. In addition, this person must be able to work across multiple facets of the project and juggle multiple responsibilities at the same time. The individual must have strong analytic capability and the ability to create innovative solutions. We are looking for a highly motivated individual who is looking to grow their career in a fast paced environment.

PRIMARY RESPONSIBILITIES:

- Designing, building and maintaining stand alone/web applications using JavaScript, Java Server Pages, HTML, CSS, and JQuery.
- Developing high performance, Java /J2EE based web applications and web services that utilize relational databases.
- Developing use cases and design alternatives in accordance with business requirements.
- Participating in code reviews, working with testers and clients, to effectively document and validate all implementations.

POSITION REQUIREMENTS:

- BA/BS in MIS, Computer Science or related field of study
- Working knowledge of Web Services, SOAP, XML, Java Script, Java Server Pages, HTML, CSS, and relational database development
- Strong communication skills
- Ability to work independently
- Ability to travel
- Ability to be on call 24 hours per day/7 days per week on a rotational basis

POSITION PREFERENCES:

- Exposure to Web Development utilizing Java
- Exposure and/or familiarity with Agile Development Methodology
- Exposure and/or familiarity with Service Oriented Architecture (SOA)
- Exposure and/or familiarity with rapid application development or object-oriented analysis and design
- Exposure and/or familiarity with Rational Application Developer or Eclipse
- Exposure and/or familiarity with IBM’s WebSphere Application Server (WAS)
# Zeppelin Systems USA seeking two Software Engineers

<table>
<thead>
<tr>
<th>Job ID:</th>
<th>41064</th>
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<tbody>
<tr>
<td>Job Title:</td>
<td>Software Engineer</td>
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<tr>
<td>Organization Name:</td>
<td>Zeppelin Systems USA, Inc (prev Reimelt Corp)</td>
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<tr>
<td>Job Location:</td>
<td>Tampa (Odessa), FL</td>
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<tr>
<td>Number of Openings:</td>
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<td>Minimum GPA:</td>
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<td>Work Authorization:</td>
<td>Non US Citizen - Permanent Resident, U.S. Citizen or U.S. National</td>
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<td>Work Schedule:</td>
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<td>Estimated Hours per Week:</td>
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<td>Wage/Salary:</td>
<td>Based on Qualifications / Skills</td>
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<td>Job End Date:</td>
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<tr>
<td>Supervisor:</td>
<td>Ed Ryon</td>
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<tr>
<td>Website:</td>
<td><a href="http://www.zeppelin-usa.com">www.zeppelin-usa.com</a></td>
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## Job Description:

Software engineers at Zeppelin Systems USA, Inc. work to maintain, upgrade and customize our Production Information System Management Applications (PRISMA®) systems for Formula Management, Production Scheduling, Lot Tracking, Batch Logging, Inventory, Usage and other data handling tasks using Microsoft Visual Studio and Microsoft SQL Server. Engineers also work to help program and configure Supervisory Control and Data Acquisition / Human Machine Interface software for animated process equipment graphics and alarms.

## Qualifications:

Software Engineer - Zeppelin Systems USA, Inc. a leading global supplier of automated material handling and mixing systems has an opening for an entry level software engineer in the Tampa, Florida area. Minimum requirements are a Bachelor’s Degree in Computer Science, Engineering or related degree and/or experience in Supervisory Control And Data Acquisition / Human Machine Interface software. Some experience in Microsoft Visual Studio, graphics design and/or implementation with SCADA / HMI Software, and scripting languages is preferred. As a Microsoft Silver Data Platform Partner, Zeppelin Systems USA, Inc. is interested in candidates who possess Microsoft SQL Server database skills and are willing to obtain certifications. Zeppelin Systems USA, Inc seeks candidates that can excel at the above tasks and are interested in pursuing a long term career with us in the expanding market of manufacturing execution systems and manufacturing intelligence applications.

Excellent oral and written communication skills to work with our engineers and clients are required. Experience related to industrial automation software, industry standards and familiarity with automation vendor’s software (Rockwell, GE, Invensys etc.), and Programmable Logic Controllers (PLCs)/Programmable Automation Controllers (PACs) and networking is a plus.

Zeppelin Systems USA, Inc. is an Equal Opportunity Employer and offers a competitive salary and benefits package including health care and 401K.

**Application Instructions:** Send resume with cover letter explaining your qualifications and interest in this position to:

[Beverly.Sneed@zeppelin-usa.com](mailto:Beverly.Sneed@zeppelin-usa.com)
Beverly Sneed – HR
Zeppelin Systems USA, Inc.
13330 Byrd Dr.
Odessa, FL 33556
(813) 920-7434