Dear CSE Students:

Welcome to the third newsletter of the Fall 2019 semester.

Message from the UG Advisor: Upcoming deadlines: Graduation checklists are due November 1\textsuperscript{st} for Spring and Summer 2020 graduates. The last day to withdraw without academic penalty and with no refund is November 2\textsuperscript{nd}. Registration for spring courses begins November 4\textsuperscript{th}. Check OASIS for your assigned registration date and time. Register as soon as your assigned time allows. Do not wait for fall grades to post. Cybersecurity majors: Hands on Cybersecurity—CIS 4622 and Penetration Testing—CIS 4200 will be offered in Spring 2020. They will not be available in Summer or Fall 2020. If you plan to graduate during any term in 2020, and you still need either course, take them this spring.

Message from the Grad Program Assistant: For those students who are graduating this Fall 2019, make sure that you have applied for graduation via OASIS. If you are an international student, keep in mind that in order for your OPT request to be approved, you must have the Comprehensive Exam passed. If you are defending a thesis/dissertation, please be mindful of the deadlines. If you are unsure of such dates, please see me in ENB 342D or send me an email for clarification. For those students continuing, registration for Spring 2020 opens November 4. Check your time-ticket for registration in a timely manner. Independent Study, Directed Research, and Internship hours cannot be self-registered. You must submit a Graduate Contract to be able to be registered for those hours.

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

- USF Research Study Participants Needed
- Research Opportunity for Undergraduates with Electrical Engineering
- Developer Student Clubs Open Board Member Positions
- Harvard WECODE Student Ambassador Opportunity
- Cyber Florida Career Fair
- Cyber Florida Career Fair Shuttle Service
- C\textsuperscript{3}EL Audiovisual Engineer Internship Opportunity
- Uncubed x IBM Internship and Career Opportunities
- Arduino Developer Job Opportunity

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Research Study

IRB Study #: Pro00039035

Are you a Junior or Senior undergraduate in Computer Science?

If so, we are looking for you to participate in a research study on gender, Social Cognitive Career Theory (SCCT) and Educational Pathways in computer science programs.

Research Criteria
  - 18 years of age, or older
  - Junior or Senior undergraduate in Computer Science (minor/major)
  - Have completed at least 2 undergraduate, or equivalent, Computer Science coursework
  - Identify as either male or female

What’s in it for you?
  - A better understanding of your SCCT factors and academic path

Research Purpose
To understand the self-perceived SCCT factors of men and women in their educational pathway while completing course work, in computer science

Time Commitment
  - This study will be conducted over the course of 1 semester
  - Demographic Questionnaire
  - Three ~2 hour interviews during the semester
  - 3 journal writings during the semester

Compensation:
$50 in total of Starbucks gift cards as a thank you for participation

If interested
- Contact Stephanie Fitzsimmons at fitzsimmons@mail.usf.edu or 858-705-1118
Research Opportunity for Undergraduates

The Department of Electrical Engineering at the University of South Florida (USF) invites applications for two Undergraduate Researcher positions.

**Research Topic**: Robust and Efficient Architectures and Algorithms for Data-driven Intelligence

**Place of Work**: Department of Electrical Engineering at the University of South Florida.

**Principal Investigator**: Morris Chang, [http://chang5.myweb.usf.edu/](http://chang5.myweb.usf.edu/)

**Description**: The Undergraduate Researchers will closely work with the PI and the project team in the process of development, testing and implementation of novel AI/ML tools, algorithms and methods. The selected candidates will work and be compensated in the range of 5 to 15 hours a week to assist PhD students in research activities. Applicants with basic programming skills and understanding of machine learning should send a brief CV with GPA to chang5@usf.edu with a subject line of “Data-driven Intelligence Application (undergraduates), your last name, your first name.”
OFFICIALLY POWERED BY GOOGLE DEVELOPERS

OPEN BOARD MEMBER POSITIONS!

3X TECHNICAL DIRECTOR

LINK TO APPLY FOR POSITIONS:
https://forms.gle/rKy9orr7PnCNgp4z9

FOR OTHER STUDENTS WHO ARE GENERALLY INTERESTED IN THE CLUB & WANT TO BE A MEMBER:

FILL OUT THIS SHORT FORM TO GET ADDED ON TO CLUB AND RECEIVE EMAILS!
https://forms.gle/boLtnv31QjQzqPUv8

FOR ANY QUESTIONS:
EMAIL - KARISHMAJ@MAIL.USF.EDU
Harvard WECode Conference—APPLY NOW to be a Student Ambassador

For a FREE ticket to WECode and other perks, apply to be in our Student Ambassador program here by Sunday, October 13th.

Who are Harvard WECode Student Ambassadors?
Student ambassadors are selected as a point-of-contact for their school. You help us publicize WECode at your school and lead a group of students to attend WECode at discounted prices—the larger the group, the greater the ticket discount. Once your group has purchased tickets, your responsibilities are complete and all that is left is to enjoy the WECode experience! We are looking for responsible, reliable students with great communication skills and with enthusiasm for Harvard WECode! Once selected, you will hear back from us with more details by October 20th.

Student Ambassador Program Duties
- Organize at least 5 students from your school to attend WECode
- Publicize WECode to at least 8 mailing lists
- Post to at least 2 relevant social media groups (e.g. college Facebook groups)
- Pub to at least 2 STEM clubs of other colleges near your school
- Reach out to any CS/STEM organizations on campus to promote WECode at their events
- Confirm group ticket numbers and submit proof of your pubbing efforts to pub.wecode@gmail.com by January 1st

Conference Perks: WECode Student Ambassador Program
As a student ambassador, you will receive:
- A free ticket to attend WECode
- A guaranteed spot in mock interviews
- Guaranteed free housing over the course of the conference
- Group ticket discounts for students from your school
- ...and more!

Apply to be a student ambassador here by Sunday, October 13th!
CYBERSECURITY JOB SEEKERS

Network with potential employers and explore job opportunities at Cyber Florida’s first statewide Career Fair! Held on-site as part of Florida Cyber Conference 2019, the Cyber Florida Career Fair will give you the opportunity to meet face-to-face with employers in the cybersecurity industry. Gain insight to potential career paths and learn about current and future opportunities in the field. To register for this event, please visit the conference website at flcybercon.com.

WHEN: Thursday, October 24, 2:00 to 5:00 PM
WHERE: Florida Cyber Conference 2019
Tampa Convention Center
333 S. Franklin St., Tampa, FL 33602
COST: Free for job seekers

Questions? Please contact Nikki Sanberg at nsanberg@cyberflorida.org.

WWW.FLCYBERCON.COM

Please note: The Career Fair is FREE for all job seekers to attend, but you must register in advance. Career Fair registration does not grant access to conference activities on October 25; separate conference registration is required.
- **FREE** Continuous shuttle services on October 24 & 25
- Picking up attendees at USF Marshall Student Center bus terminal off of Holly Drive and transporting them to Tampa Convention Center Front Drive Entrance.
- Full shuttle schedule listed on conference website, [flcybercon.com](http://flcybercon.com)
USF Intern Audiovisual (AV) Engineer – Tampa, FL

This is an entry level engineering position, specific experience in the AV industry is not required. Candidate will perform as a trainee on the following.

- Design, installation and programming of audiovisual and Video Teleconference (VTC) systems and infrastructure.
- Troubleshoot endpoints, voice and video network hardware and software systems.
- Hardware installations on a variety of platforms, with a focus of audiovisual and communications systems.
- Program and configure AV equipment such as media control systems (AMX / Crestron), DSPs, matrix mixers and switchers, codecs (Cisco/Tandberg/Polycom)

Your work will support large-scale audiovisual systems integration for the US Department of Defense and NATO entities.

The goal of this position is to become an audiovisual systems engineer/programmer. C3EL will provide extensive on the job, professional, and manufacturer training.

C3EL is a highly collaborative team environment, team skills are a must. We build complex audiovisual systems at our integration center in Tampa FL and deploy these systems worldwide.

**Basic Qualifications:**
- Must pass criminal background investigation and be eligible to attain DoD Security Clearance.
- Bachelor’s in Computer Science
- The candidate must be eligible for a US passport and be willing to travel internationally for extended periods.

**Additional Qualifications: helpful but not required:**
- Experience with Department of Defense and/or military
- Experience with Extron, Crestron, and AMX equipment

This is a paid intern to full-time position with full benefits and 401k. We will be flexible during the training period with considerations to student schedule. (1 year)

Interested candidates submit your resume to info@c3el.com subject line (USF Intern AV Engineer)
The Uncubed x IBM 2020 Fast-Track
Sep - Nov 2019 | Applications Open

Whether you’re into AI, data science, blockchain, cybersecurity, or IoT, you have an opportunity to put your major to work in ways that impact people’s lives.

From healthcare and finance to government and education, the products you build can help personalize, protect, and predict the world around us.

This Fall, Uncubed and IBM have joined forces once again to bring you fast-tracked access to 2020 internships and entry-level roles within software development and engineering, data science, product management, technical consulting and sales, and more.

The Uncubed x IBM 2020 Fast-Track guarantees that your application is reviewed by a human, shortlists you for recruiter review, and fast-tracks you for assessment - all while giving you a team to reach out to with any questions.

APPLY & LEARN MORE HERE: uncubed.com/jobs/ibm
**Arduino IDE software project**

$30/hour ($60 minimum total)

(Small effort, small amount of code, small board)

I am a retired hobby inventor/maker. I need a freelance student software expert/developer/tutor.

I need to program some Attiny85 USB Development Boards via Arduino IDE software. I believe it utilizes C++ commands.

The Attiny85 is a little programmable general purpose device. Small, cheap, easily available and amazingly capable. Sort of like a smaller Arduino Uno micro-controller.

I have downloaded the free open software but do not know C++ commands well enough. I am more of a hardware geek. I believe the task to be very simple for an expert.

I basically need a 1 pulse input (from a coin operated micro-switch) that is about 100ms long at 7.6V to produce 2 output pulses of 50ms long each approximately at 7.6V. Probably some switch debounce code that I found on line also. I also have a suggested solution (software logic block diagram) from an online engineering expert chat group.

I am currently building a small portable test bed that can be used for this project.

The developer can write the code virtually anywhere, at any time, however I would like to collaborate and learn from the expert as well if practical. I need to be able to install the code (from the cloud) onto many boards from my own desktop PC or a laptop.

Interested parties should contact me for project details and information and provide a project estimate (in hours) before proceeding.

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