Dear CSE Students:

Welcome to the fourth newsletter of the Fall 2018 semester.

Message from the UG Advisor: IMPORTANT: For students planning to graduate in spring or summer 2018, the deadline to submit a graduation checklist is Friday, October 26th. You can find details about applying to graduate and many other details on the CSE website. [https://www.usf.edu/engineering/cse/undergraduate/graduation.aspx](https://www.usf.edu/engineering/cse/undergraduate/graduation.aspx) October 27th is the last day to withdraw with no refund and no academic penalty. Remember, withdrawing from a course is considered an attempt and may contribute to your excess hours count. Upper-level students may withdraw from up to two courses unless petitioning to withdraw from more due to exceptional circumstances. This is something you should discuss with an advisor. Registration for spring will begin at the end of October. Avoid the rush at the end of the month by scheduling advising now while our calendars are relatively open. Planning now will help you avoid waiting in line once registration starts. Registration times will be posted sometime in October. Remember to check your time and register as soon as you can. Don’t wait for fall grades to register for spring courses!!

Message from the Grad Program Assistant: Students graduating this semester, please make sure that you have applied for graduation via OASIS and that you have submitted your graduation checklist to me. If you were admitted on or after Fall 2017, in mind that you must pass the Comprehensive exam in order to graduate (non-thesis students only). Registration for the Spring semester will open October 29. Be aware of your registration time ticket! If you were admitted provisionally pending final transcripts, make sure the Office of Admissions has received your official transcripts.

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

- Office Hours for the CSE Programming Resource Center (PRC)
- Advancing Machine and Human Reasoning (AMHR) lab looking for Undergraduate Researchers
- Affective Computing Searching for 2 to 3 Undergraduate Assistants
- WICSE October Events
- SHPE Tech October Events for BBQ with Industry
- Harvet CROO Robotics (HCR) – Vision System Intern
- Promote NCWIT Collegiate Award Deadline October 15, 2018
- Amazon Sumerian Challenge: AR, VR & Immersive Apps Deadline January 8, 2019
- ColDesi R&D Open Position in Largo, FL
- CAE Software Engineering Co-op Student in Tampa, FL
- Maantic Inc. Entry Level Robotic Automation Consultant

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Office Hours for the CSE Programming Resource Center  
(Fall 2018 – Last updated: September 23, 2018)

The CSE Programming Resource Center (PRC) is the cubicle in the northwest corner of ENB 214 (C4 Lab). Teaching Assistants (TAs) from Programming Concepts (COP 2510), Program Design (COP 3514), Object Oriented Design (COP 3331), Data Structures (COP 4530), IT Programming Fundamentals, and IT Object Oriented Design staff the center to provide programming assistance to all CSE students in all Departmental courses. Note that the TA for your course is always your best resource, but all TAs will work hard to help you. The TAs and hours are below:

### Mondays
- **Efe Seyitoglu** &lt;efe3@mail.usf.edu&gt; for COP 2510: 11am – 12:30pm
- **Denis Laesker** &lt;dlaesker@mail.usf.edu&gt; for COP 3514: 11am – 12pm
- **Prakruthi Shivram** &lt;prakruthis@mail.usf.edu&gt; for IT COP 2513: 12:30pm – 3:00pm
- **John Rippetoe** &lt;rippetoej@mail.usf.edu&gt; for COP 4530: 2:00pm – 3:30pm
- **Raul Estrada Ballesteros** &lt;raulestradab@mail.usf.edu&gt; for IT COP 2512: 1pm – 3pm
- **Md Sirajus Salekin** &lt;salekin@mail.usf.edu&gt; for COP 2510: 3:30pm – 5:00pm

### Tuesdays
- **Joshua Imarhiagbe** &lt;ijimarhiagbe@mail.usf.edu&gt; for COP 3331: T 12:30pm – 1:30pm
- **David Ehrenhaft** &lt;dehrenhaft@mail.usf.edu&gt; for IT COP 2513: T 12:30pm – 3:00pm
- **Maithili Mishra** &lt;maithilimail@mail.usf.edu&gt; for COP 2510: T 2:30pm – 3:30pm

### Wednesdays
- **Padmavathi Siddi** &lt;siddip@mail.usf.edu&gt; for IT COP 2512: W 9am – 11am
- **Chengcheng Mou** &lt;chengcheng@mail.usf.edu&gt; for COP 4530: W 1pm – 3pm
- **Trisha Mukhopadhyay** &lt;mukhopadhyay@mail.usf.edu&gt; for COP 3331: W 2pm – 3pm
- **Jinghan Meng** &lt;meng@mail.usf.edu&gt; for COP 3514: 2pm – 5pm
- **Garfield Huang** &lt;yongqiang@mail.usf.edu&gt; for IT COP 2513: W 4pm – 6pm

### Thursdays
- **Raul Estrada Ballesteros** &lt;raulestradab@mail.usf.edu&gt; for IT COP 2512: 9am – 11am
- **Kin Ng Lugo** &lt;kinwaing@mail.usf.edu&gt; for COP 2510: 1pm – 2pm
- **Anis Elebiary** &lt;anis@mail.usf.edu&gt; for IT COP 2513: 4pm – 6pm
- **Tracy Miller** &lt;tammiller1@mail.usf.edu&gt; for COP 3514: 5pm – 6pm

### Fridays
- **Sk Rahatul Jannat** &lt;jannat@mail.usf.edu&gt; for COP 3514: 2pm – 5pm
- **Krishna Patel** &lt;krishna4@mail.usf.edu&gt; for IT COP 2512: F 3:30pm – 5:30pm

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Dr. Licato’s Advancing Machine and Human Reasoning (AMHR) lab has an opening for undergraduate researchers in computer science or engineering.

This is a paid position, which involves developing a GUI for an automated reasoning system. Some experience in Java, Python, and NodeJS is preferred.

To apply, send your résumé or CV to Dr. Licato as soon as possible at licato@usf.edu.

The Advancing Machine and Human Reasoning Lab (AMHR, pronounced "ah-moor"), led by Professor John Licato in USF’s Department of Computer Science and Engineering, is a cross-disciplinary lab dedicated to answering the following guiding research questions:

- How can artificial intelligence make people better reasoners?
- How can we create better artificially intelligent reasoners?
- How can we advance our knowledge of logic and other cognitive-level reasoning processes in order to produce better conclusions, justifications, and arguments?

We're devoted to not only creating smarter AI, but ensuring that these advances help improve, rather than replace, human reasoners. Think of what word processing software did for humanity: it has spell-checking, it takes care of document formatting, and allows people to focus more on the creative production of high-quality, professional documents. In other words, the combination of people and word processing software together does better than either one can do alone. We believe that one day, we can do this with logical reasoning.

To learn more about AMHR, click here: https://sites.google.com/view/amhr
Affective Computing Searching for 2 to 3 Undergraduate Assistants

Dr. Shaun Canavan is looking for 2-3 undergraduates that are interested in joining his lab to assist PhD students. The Affective Computing lab, which is a part of the Computer Vision and Pattern Recognition lab, is looking for undergraduate assistants to join us.

Responsibilities will be to assist PhD students with research including, but not limited to, manual data separation, writing and debugging python code, and data collection. All class rankings will be considered; no preference will be given to any ranking. At the discretion of lab supervisor, Dr. Shaun Canavan, position may involve more self-directed research projects where the student will no longer be assisting PhD students, but conducting their own independent research, if the student wants to pursue this option.

There are currently multiple positions available. Applications will be accepted until all positions are filled. DO NOT email the lab supervisor or any members of the lab about these positions. ALL applications will be handled through the Google form that is linked below. If you have questions, you can input them at the bottom of this form. Dr. Shaun Canavan will contact you if necessary. Applicants under consideration will be contacted for further discussion.

Click on the link below to apply:  
https://docs.google.com/forms/d/e/1FAIpQLSduZp7Mt1b4Tb16KsnoED9gNoda0vO_irWL4lZ7z0hebcykg/viewform?usp=sf_link
Happy spooky month, WICSE members! October is an exciting month filled with lots of interesting projects and new companies/organizations who are eager to connect with us. Look out for flyers with more information and posts on our various social media platforms—be sure to follow us on Instagram and join us on Facebook. If you have any suggestions, be sure to reach out to us!

**Upcoming Events & projects**

**WICSE BOOTCAMP**
- Oct 4, 5:30-6:30: What is DevOps?
- Oct 10, 5:30-6:30: Intro to Arduino
- Oct 17, 5:30-6:30: Advanced Arduino
- Oct 25, 6:30-7:30: Machine Learning

**Employment Opportunities**

**JP MORGAN CHASE**
- Summer 2019 Intern
- Foundational knowledge of programming languages, data structures and algorithms
- 3.2 GPA or higher

**Member Spotlight**

Meet our secretary, Bryce Pfeiffer! Bryce spent the summer interning with Sofwerx as a software developer working on cube satellite with NASA’s core flight software.

**Upcoming Workshops**

**OCT 1: TECHNICAL WORKSHOP**

**ACCUSOFT**

**OCT 8: COMPUTER SECURITY W/**

**Data-Tech**

**OCT 15: TECHNICAL WORKSHOP**

**FAIR WARNING**

**OCT 22: INTEGRATION VIA IIS W/**

**Geographic Solutions**

**OCT 28: VR FOR DEFENSE W/**

**CAE**
UPCOMING WORKSHOPS 2018
BBQ WITH INDUSTRY

OCT 8
E2 GENERATIONS. "HOW TO PROSPECT AND FIND FREELANCE CLIENTS AND BREAK INTO THE INDUSTRY"
6PM-7PM @CURT 202

OCT 9
E2 GENERATIONS. "DEVELOPMENT LEARNING TIPS"
6PM-7PM @CURT 202

OCT 10
JP MORGAN CHASE CO. "PASSING THE CODING TEST"
6PM-7PM @CURT 102

TLC
5PM-6PM @CHE 103

OCT 10
FINFROCK
9AM-11:30AM @CURT 202

TLC
JPMorgan Chase & Co.
E2 GENERATIONS
FINFROCK
Harvest CROO Robotics (HCR) – Vision System Intern

Vision System Intern – Computer Software / Image Processing / Vision Systems

Job Title: Vision System Intern

Harvest CROO is searching for an intern to assist in the design of a multispectral imaging system for a large, mobile, agricultural harvesting system. This opportunity is located in Tampa, FL.

JOB ROLE WILL BE TO:

The Vision System Intern will be responsible for creating software to assist in the evaluation and refinement of complex image recognition software. Additional responsibilities for the Vision System Intern may include the following:

Responsibilities
- Design software tools to evaluate performance of multispectral processing algorithms to identify, sort, and grade produce for an autonomous, robotic harvester.
- Evaluate algorithms on real-time processing hardware
- Test and assemble vision system optical and sensor components
- Assist in preparation of vision system hardware and software documentation

Required Skills
- Ability to code in a higher-level programming language such as C/C++, Python, or Java.
- Ability to use scientific analysis and prototyping environments such as SciPy/NumPy, R, or MATLAB
- Ability to work in a team environment
- Good communication skills, both written and verbal.

Preferred Skills
- Working knowledge of: image processing, image analysis, and/or computer vision
- Ability to code and debug GPU accelerated processing
- Ability to code and debug low-level device drivers

Education and Experience
- Pursuing an undergraduate degree in Engineering or Computer Science
- Good understanding of a higher-level programming language such as C/C++, Python, or Java.
- Significant experience with one or more scientific analysis and prototyping environments such as SciPy/NumPy, R, or MATLAB.

Contact: Dr. Moreno (in EE) at wmoreno@usf.edu
Promote NCWIT Collegiate Award

Deadline October 15, 2018

Just a quick reminder that NCWIT is offering the Promote NCWIT Collegiate Award to ALL undergraduate and graduate women students majoring or minoring in computing-related fields are eligible to apply, and applications for 2019 are open until October 15, 2018. Recipients receive up to $10,000 in cash, a trip to the NCWIT Summit and other great prizes!

To apply, click here: https://college.aspirations.org/promoteaward
Amazon Sumerian Challenge: AR, VR & Immersive Apps  
Deadline to Enter: January 8, 2019

Amazon has just launched the Amazon Sumerian Challenge, an online competition to create and publish AR, VR & immersive apps using Amazon Sumerian's browser-based IDE.

Participants who submit an eligible application will qualify for a chance to win part of over $100,000 in cash & prizes, including a virtual meeting with Sumerian product leadership team and judges.

Amazon Sumerian Hackathon  
Create and publish AR, VR & immersive apps using Amazon Sumerian’s browser-based IDE

- Prizes: Over $100,000 in cash and prizes, including a 30-minute virtual meeting with Sumerian product leadership team and judges
- Deadline: January 8, 2019
- Learn more and register at amazonsumerian.devpost.com
ColDesi R&D Open Position in Largo, FL

ColDesi is extremely proud to offer an amazing product line designed for the custom t-shirt, embroidery and apparel decorating businesses. We currently offer direct to garment printers, commercial embroidery machines, rhinestone machines and our innovative ProSpangle spangle transfer system. We are committed to helping beginners and established companies alike succeed in their business ventures by providing the equipment, offering the support, training and care needed to make them successful. In fact, ColDesi’s online and on-site training programs were recently highlighted in Stitches Magazine, a leading industry publication.

ColDesi R&D is located off Ulmerton Road in Largo, Florida. ColDesi is willing to pay well for project-based work and hopefully find someone who would complement their team for the long run. The projects we work on are mostly related to the apparel decorating industry, and we are currently on a path to develop IP and Hardware that significantly improve some of the big issues that face this industry.

ColDesi is looking for an individual who loves playing and developing robotic mechanisms. Any formal education in robotics and programming is a bonus. Brief notes on what we are looking for:

- Program Arduino hardware along with understanding C++ along with a basic understanding of how the hardware works.
- Directly work with electrical and mechanical engineers that will direct and guide them in R&D projects.
- They will aid in the development of machine software functions that will control various hardware listed:
  - Servo Motors (PWM Type)
  - Stepping Motors drives
  - Fluidics logic, pumps, valves
  - Sensors, Optical, Temperature
- An understanding or interest in inkjet mechanisms would be desirable but not necessary.

Click here to learn more about ColDesi: https://coldesi.com

Contact and send resume to President Scott Colman at scolman@coldesi.com for more information.
CAE Software Engineering Co-op Student

CAE is a global leader in training for the civil aviation, defense and security, and healthcare markets. Backed by a 70-year record of industry firsts, we continue to help define global training standards with our innovative virtual-to-live training solutions to make flying safer, maintain defense force readiness and enhance patient safety. We have the broadest global presence in the industry, with 8,000 employees, 160 sites and training locations in over 35 countries. Each year, we train more than 120,000 civil and defense crewmembers and thousands of healthcare professionals worldwide. [www.cae.com](http://www.cae.com)

Role and Responsibilities

- Provide technical support to senior level engineers in design, test, documentation, and implementation
- Perform engineering tasks including writing and testing software, creating software tools, updating drawings and documentation
- Gather data and prepare reports as necessary
- Provide administrative and technical support to Engineering department
- Assist other departments, when needed

Qualifications and Education Requirements

- Must be enrolled in an accredited bachelor's degree (or higher level) college/university program in majoring in an Engineering discipline, preferably Software Engineering or Computer Science
- Must have a minimum GPA of 2.5
- Must be proficient with Microsoft Office products
- Must be familiar with C++ and/or C# programming languages
- Familiarity with SQL/Access database a plus
- Must be willing to learn new procedures and applications
- Must be able to compute rate, ratio and percent
- Must have good diagnostic and troubleshooting skills
- Must be detail oriented
- Must be customer service oriented
- Must be willing to learn new procedures and applications
- Must have excellent communication skills
- Must be able to work with minimal supervision

Pay Starting at $14 an hour
Hours: Part-time; at least 15 hours a week

- Positions: 58821, 58754, 58755, 58822, 58820
- Search under Tampa & Tampa, FL, USA
Questions: Contact Laura Shives, [Laura.Shives@caemilusa.com](mailto:Laura.Shives@caemilusa.com)