

The SunCoast Signal

Vol. 70, No. 5, May 2024

Florida West Coast Section (FWCS). Serving over 2,100 members in the following Counties: Charlotte, Citrus, DeSoto, Hardee, Hernando, Hillsborough, Lee, Manatee,

Pasco, Pinellas, Polk and

Sarasota



Florida West Coast Section (FWCS) Please Check the Website Often for UPCOMING EVENTS (Front Page Right Column)

https://r3.ieee.org/fwc/

The SunCoast Signa

The Institute of Electrical and Electronics Engineers, Inc.

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Next ExCom Meeting Tuesday, May 7, 2024 Google Meet Register with vTools https://events.vtools.ieee.org/m/416387 PE Corner Art Nordlinger, PE, Senior Member What Qualifies for Continuing Education Hours (Part 1)

Licensure renewal is coming up in less than a year and you're thinking, "It's time I got serious about getting some Continuing Education Hours (CEHs)." This seems like an appropriate time to talk about what you can do to earn your CEHs. Maybe you are dreading the thought of having to sit through 16 hours of technical education (section 2, below). Well, there are other things that qualify for CEHs of which you may be able to take advantage. Sections 61G15-22.003 and .004 of the Florida Board of Professional Engineer's rules address this. The first section addresses Qualifying Activities for Area of Practice Requirement and the second Conversion of Education Units to Continuing Education Hours. I'll combine the sections here and provide some editorial commentary.

(1) Successful completion of college courses.

One (1) college semester hour credit is equal to 45 continuing education hours

One (1) college quarter hour credit is equal to 30 continuing education hours.

Yes, you can complete the entire requirement by taking one college level course in your area of practice.

You can't "carry over" CEHs from one renewal period to another. I would note that there are states (other than Florida) that do allow some amount of carry-over. This has been discussed by both the Continuing Education Committee and the full Board and, at least for now, no change is contemplated.

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IEEE FWCS ExCom

CHAIR: Michael Mayor, michael.mayor@ieee.org VICE CHAIR: Andrew Seely, andrew.seely@ieee.org SECRETARY: Chung Seop Jeong, PhD, jeong@ieee.org PAST CHAIR: Paul Belussi, paul.belussi.us@ieee.org TREASURER: Claude Pitts, Robert DeMelo trea.fwcs.ieee@gmail.com SIGNAL EDITOR: Michael Mayor, michael.mayor@ieee.org, AWARDS & BYLAWS: Richard Beatie, PE, r.beatie@ieee.org MEMBERSHIP: Hermann Amaya, hermann.amaya.us@ieee.org TEACHER IN-SERVICE: Sean Denny, Venner20@ieee.org, AESS/IMS Aerospace & Electronic Systems/Instrumentation & Measurement, Chair: Michael Mayor, michael.mayor@ieee.org CS Computer Society, Chair: Andrew Seely, andrew.seely@iee.org **EMBS** Engineering in Medicine & Biology Chapter: Sylvia Thomas, sylvia@usf.edu MTT/AP/ED Microwave Theory & Techniques/Antennas & Propagation/Electron Devices Joint Chapter Dr. Jing Wang, jingw@usf.edu PES/IAS Power & Energy/Industry Applications Joint Chapter: Chair, Kayla Allemang, kallemang@ieee.org RAS Robotics & Automation Chapter: Chair Sean Denny, venner20@ieee.org. SP/COMM Signal Processing / Communications Joint Chapter: Chair Michael Ramalho, PhD, mar42@cornell.edu WIE Women in Engineering Affinity Group: Chair Diana Aristizabal, dianaaristizabal@ieee.org; Ammara Ghani: ammara.ghani@gmail.com LIFE MEMBER Affinity Group: Chair Richard Beatie, PE, r.beatie@ieee.org PACE Chair Michael Mayor, michael.mayor@ieee.org YOUNG PROFESSIONALS: Chair TJ Ross, a.j.ross@ieee.org CONSULTANTS NETWORK: Hermann Amaya, hermann.amaya.us@ieee.org **CONFERENCES:** Vacant SENIOR MEMBER COMMITTEE: Hermann Amaya, hermann.amaya.us@ieee.org SECTION STUDENT ACTIVITIES CHAIR: Ron Ambrosio, ron.ambrosio@ieee.org **USF STUDENT BRANCH ADVISORS:** Dr. Andrew Hoff, Student Branch Co-Advisor, hoff@usf.edu, Dr. Chung Seop Jeong, Student Branch Co-Advisor, jeong@usf.edu Dr. Robert Karam, CS Chapter Advisor, rkaram@usf.edu Dr. Jing Wang, MTT Chapter Advisor, jingw@usf.edu Student Branch/Chapters: USF Student Branch, Chair: Utkarsh Misra, umisra@usf.edu USF CS Chapter Chair: Mykyta (Nick) Nechaiev, mnechaiev@usf.edu USF Microwave Theory & Techniques, Chapter Chair: Anil Imren, imrena@usf.edu USF HKN Kappa Xi Chapter, President, Roberto Montero, roberto.montero@ieee.org FLORIDA POLYTECHNIC UNIVERSITY Student Chapter Chair, Aedan Casey acasey9788@floridapoly.edu Student Branch Advisor: Muhammad Ullah mullah@floridapoly.edu CS Chapter Chair: Zane Wolfe, zwolfe4232@floridapoly.edu CS Chapter Advisor: Oguzhan Topsakal, otopsakal@floridapoly.edu WEB MASTER: TJ Ross, a.j.ross@ieee.org WEB PAGE: https://r3.ieee.org/fwc/

PE Corner - Continued from Page 1

Additionally, in a few cases where an engineer's continuing education was found deficient during an audit and the engineer then "made up" those hours by taking the necessary courses as required by the Board, some engineers then tried to use those "make up" course hours to satisfy the continuing education requirement in the subsequent renewal period as well. The Board sees this as double counting and disallowed those hours.

(2) Successful completion of short courses, tutorials, webinars, and distance education courses offered through delivery methods such as live, correspondence, recorded, Internet-based; or attending seminars (including in-house engineering seminars), workshops, or professional and technical presentations at meetings, conventions or conferences presented/sponsored by a provider or vendor with specific knowledge related to the licensee's area of practice approved under Rule 61G15-22.011, F.A.C.

One (1) contact hour of professional development in course work, seminars (including in-house seminars at an engineering firm), or professional or technical presentations made at meetings, conventions, or conferences is equal to 1 continuing education hour.

Note that Rule 61G15-22.011 requires that both providers and content be approved by the Board, or that the provider is an exempt provider. IEEE and other professional societies are "exempt providers" and don"t have to have individual courses approved. That includes attending a conference put on by a recognized professional society in another state.

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THE SUNCOAST SIGNAL, published monthly by the Florida West Coast Section (FWCS) of the Institute of Electrical and Electronics Engineers, Inc. (IEEE). Please Note that the SUNCOAST SIGNAL is sent each month to ACTIVE members of the IEEE Florida West Coast Section. So to continue receiving the SIG-NAL please keep your membership Active, meaning, renew your membership when it becomes due. Annual subscription is included in the IEEE membership dues. The opinions expressed, as well as the technical accuracy of authors, advertisers or speakers published in this newsletter are those of the individual authors, advertisers, and speakers. Therefore, no endorsement by the IEEE, its officers, or its members is made or implied. All material for THE SUNCOAST SIGNAL is due in electronic form by the end of day of the 1st Monday after the 1st Tuesday of the month, i.e. the ExCom meeting, preceding the issue month. Contact: michael.mayor@ieee.org

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IEEE Aerospace and Electronics Systems Society

CYBER FLORIDA PROGRAMS FOR CYBERSECURITY OF CRITICAL INFRASTRUCTURE

Date:	Thursday, April 25, 2024					
Time:	Webinar: 12:00PM – 1:00PM (EST/EDT)					
Speaker:	Emilio Salabarria, MS, CIM; Sr. Program Manager Cybersecurity					
	Cyber Florida: The Florida Center for Cybersecurity					
Location:	OnLine – meeting invitation will be emailed to attendees prior to seminar					
Cost:	Free					
CEH Credits: No CEHs awarded						
RSVP:	Online at: https://events.vtools.ieee.org/m/415878					
Questions:	Emilio Salabarria <i>esalabarria@cyberflorida.org</i>					

Abstract: The Florida Legislature created the Florida Center for Cybersecurity, "Cyber Florida," in 2014 to help Florida become a national leader in cybersecurity through education and workforce development, research, and public engagement. In 2022, the Legislature tasked Cyber Florida with conducting a statewide critical infrastructure risk assessment to help protect Florida's people and property against potential cyber victimization. In 2024 this effort evolved into the Critical Infrastructure Protection Program (CIPP), an enduring program to harden the threat surface of the state.

CIPP provides a valuable cybersecurity selfassessment tool, cybersecurity program templates, a comprehensive cyber range, and essential training for the 16 critical infrastructure sectors: Chemical, Commercial Facilities, Communications, Critical Manufacturing, Dams, Defense Industrial Base, Emergency Services, Energy, Finance, Food and Agriculture, Government, Healthcare and Public Health, Information Technology, Nuclear, Transportation, and Water/Wastewater.

In this seminar, CIPP Senior Program Manager for Cybersecurity Emilio Salabarria will provide an overview of Cyber Florida programs and a detailed discussion on the CIPP offerings, future plans, and the state of cybersecurity in Florida's critical infrastructure

Emilio is a native of Tampa, Florida. In July 2022,



he joined Cyber Florida and is responsible for providing advanced, expert knowledge and subject matter expertise in a specific subject area that contributes to the mission(s) and initiative(s) of The Florida Center for Cybersecurity (aka Cyber Florida) at The University of South Florida.

Emilio worked for the Tampa Electric Company (TECO) as the Emergency Management and Business Continuity Director, The Depository Trust and Clearing Corporation (DTCC) as the Global Life Safety Manager, the Tampa Port Authority (TPA) as the Director of Safety and Training, and Tampa Fire Rescue (TFR) where he advanced up the ranks to Division Fire Chief of Special Operations, supervising the TFR Specialty Teams. He participated as part of the TFR planning team for many Gasparilla Parades, the 2012 Republican National Convention (RNC), and Super Bowl 43. Emilio's education includes Associate of Science Degrees in Emergency Medical Services and Fire Science from Hillsborough Community College, Bachelor of Arts in Business Administration from Northwood University, and a Master of Science in Critical Incident Management from Saint Leo University.



Zero Downtime Architecture, Digital Transformation

Date:	Friday, May 10, 2024				
Time:	Webinar: 12:00PM – 1:00PM (EST/EDT)				
Speaker:	Antra Malhotra – Associate Director, Verizon				
Location:	OnLine – meeting invitation will be emailed to attendees prior to seminar				
Cost:	Free				
CEH Credits: One (1) Professional Development Hour will be awarded					
	Be sure to enter your name and PE number upon registration as it appears on your				
	license				

RSVP: Online at: https://events.vtools.ieee.org/m/409452

Questions: Diana Aristizabal, dianaaristizabal@ieee.org

Abstract: In today's digital world, businesses heavily rely on systems for every aspect of their operations and product life cycle. High availability of mission and business critical applications is a necessity as any downtime or poor performance can have a negative impact on the revenue and operations of the organization. One of the promises of cloud platforms is high availability by building redundancy in the application architecture. However, enterprises opting for cloud often struggle to define the right framework for high availability.

For near zero downtime experience, applications should be able to perform automated application and database failover with minimum manual intervention. In this webinar we will talk about a cloud native template architecture that enterprise applications can incorporate to be highly available and evaluate techniques to perform automatic database failover for a near zero downtime experience.

Antra Malhotra, Associate Director - Software Development at Verizon.

Her responsibilities include application development and software delivery for a big data platform that provides intelligent location services,

product availability and business intelligence for



Verizon's Enterprise and Consumer Business groups. In her current role, she is also responsible for the Network Data Ingestion framework and Geospatial solution for the System Performance platform. She has had the opportunity to contrib-

ute and lead multiple significant programs, including system modernization, intelligent enterprise network, network virtualization and voice/VoIP transformation.

Antra completed her Masters in Computer Science from Georgia Institute of Technology. Antra is an AWS Certified Solutions Architect with additional program management and delivery certifications.

She is a guest faculty at Hillsborough Community College - ICCE for teaching Cloud concepts and technologies. Her area of research involves cloud technologies, application stability and big data management. Her research work on zero downtime architecture was recently published in IEEE.

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Consultants Network

Entrepreneurship Series Webinar #5: The Unintentional Business Owner

Date:	Friday, May 17, 2024			
Time:	Webinar: 12:00PM – 1:00PM (EST/EDT)			
Speaker:	Theresa Brunasso – Founder – D&S Microwave			
Location:	OnLine – meeting invitation will be emailed to attendees prior to seminar			
Cost:	Free			
CEH Credits: No CEH's provided for this event.				
RSVP:	Online at: https://events.vtools.ieee.org/m/409669			
Questions:	Diana Aristizabal, dianaaristizabal@ieee.org			

Abstract: Meet an engineer who never intended to start her own business. She often said, "I like working with other smart people and getting paid for holidays, vacations, and sick days! Why would I give that up?" Then a company layoff changed everything. A couple weeks after hearing that she was let go, former colleagues started asking her if she could consult, and she said, "Yes, I can!"

Learn how this former team player started her own company, got plenty of work, and discovered the joy of running her own business. You'll learn the steps she used to start her business, and how she got plenty of work to keep it going.

Theresa Brunasso Founder of D&S Microwave, is



a 30-year veteran in the field of Electrical Engineering. Prior to starting D&S Microwave, she spent more than 20 years at EMS Technologies. At EMS, Theresa served as Microwave Engineering Manager, Director of Technology Development, and provided innovative design and development

expertise for numerous programs, including JSTARS, XM Radio, DirectTV, DarkStar, NSTAR, Milstar, Advanced EHF, IntelSat and the Mars Science Lab.

Theresa holds an Engineer's Degree and M.E. in Electrical Engineering from the University of Utah, and a B.S. in Physics from the University of West Florida. She has served as the IEEE Atlanta Section Secretary, Vice Chair and Chair, and currently serves as the Director for the Southeastern US Region.

PE Corner - Continued from Page 2

(3) Teaching or instructing in subsection (1) or (2) above. However, teaching credit is valid for teaching a course or seminar for the first time only. Teaching credit does not apply to full-time faculty.

For teaching of subsections (1) and (2) above, apply a multiple of 2, if the requirements of subsection 61G15-22.003(3), F.A.C., are met.

Here is a way for many of us to get double credit by teaching a course with appropriate technical content in your area of expertise. Talk to an IEEE officer about this opportunity.

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Managing Transients in a Control House Grounding and Bonding Systems Webinar

Date:	Friday, May 31, 2024			
Time:	Webinar: 12:00PM – 1:00PM (EST/EDT)			
Speaker:	Adrian Zvarych, PE – Field Services Team, Supervisor Lead - Qualus			
Location:	Online – meeting invitation will be emailed to attendees prior to the webinar			
Cost:	Free			
CEH Credits: No CEH's provided for this event.				
RSVP:	Online at: https://events.vtools.ieee.org/m/416653			
Questions:	Kayla Allemang - Kallemang@ieee.org			

Abstract. The main goal of this webinar is to provide considerations for the design and installation of a grounding and bonding system intended primarily for personnel safety (Step and Touch Potential) and manage 60Hz fault currents vs a grounding and bonding system intended to manage transients and protect both personnel and equipment within a designated area.

Drawing from standards, practices, and methods from the Substation, Protection & Control, and IT-Telecom industries, are there opportunities for improvement to develop a safe work environment as well as provide excellence in transient management?

Adrian Zvarych, PE. A self-starter, with a BSEE from Carnegie Mellon University ("E82") and a Florida PE/Electrical license, Adrian has served in the electric utility industry with progressive responsibilities from a field and office design work in relay protection & control and IT/Telecommunications through Regional Director titles. At his field teams' peak, they led in performance and quality metrics with a very low Incident safety and were among the highest morale and safety marks in the company.

Adrian has been able to grow an engineering team of four resources which produced \$750,000 of revenue to fifteen persons and \$7M in revenue within about 14 months with his team earning the highest of quality marks from a very difficult client to please. He has also developed job descriptions for two net-new positions for the company, interviewed candidates. They delivered over \$8M worth of engineering projects for a primary utility customer within the next eleven months, fostering high morale and a sense of ownership and accomplishment.

Now he believes it's his turn to give back to the next generation, he's been encouraging younger engineers and technicians locally as well as developing and delivering technical papers to the IEEE, and a training course for QualU, a training arm of Qualus Power Services. He is also serving as a Working Group I45 Chair within the Power System Relay Subcommittee on grounding and bonding practices within the substation control house.

Personally, my lovely wife of over 42 years and I have remodeled several properties, dad to a loving and fun 27 year old daughter, and am also a professional musician, having played in numerous pit bands for live plays, jazz, and rock venues, with world-class touring and local musicians.

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<u>AM Session:</u> A Safe, Reliable, & Secure System – A SERC Overview <u>PM Session:</u> Best Practices for Distributed Generation Interconnection Studies **In-Person Event – 2024 FECA Engineers Conference**

Date:	Monday, June 10, 2024			
Time:	8:00am – 5:00pm			
Speaker:	Various speakers - SERC Reliability and Compliance Teams			
	Para Patel & Samantha Ball – TRC Companies, Inc.			
Location:	SandPearl Resort - 500 Mandalay Ave., Clearwater Beach, FL 33767			
Cost:	\$150 Members, \$220 Non-Members, \$20 Students			
CEH Credits: Eight (8) CEHs provided for this event. Florida provider #0003849.				
RSVP:	Online at: https://events.vtools.ieee.org/m/416604			
Questions:	Kayla Allemang – Kallemang@ieee.org			

Morning Session: A Safe, Reliable, and Secure System – A SERC Overview - A team of SERC senior staff members with vast experience in the industry will discuss the role of NERC and the regions in helping to ensure the reliability and security of the Bulk Electric System. Topics will include:

- ♦ NERC CIP Standards Overview
- Physical security issues and challenges entities of all sizes are facing.
- •Ongoing grid transformation and the current state of inverter-based resources

Afternoon Session: Best Practices for Distributed Generation Interconnection Studies – Changes to the distribution system and higher penetration of Distributed Generation (DG) drives a need for robust analysis of new interconnection requests. This seminar will provide insight into industry best practices in DG interconnection studies, including:

- ♦ High level goals, approaches, and outputs of interconnection studies
- Protection sensitivity, coordination, 3V0 Protection, Anti-islanding analysis
- •System Studies considerations including, load

flow, power factor, flicker, and thermal analysis

◆Typical challenges seen in systems with increased DG penetration

SPEAKERS

SERC Team:

- ♦ Senior Reliability and Security Advisors Chris Holmquist, Travis Moran, Ernie Schism, and Patrick Steir
- Senior Coordinate of Certification and Registration – Pete Heidrich
- ◆ Senior O&P Compliance Auditor Serge Beauzile, P.E.

TRC Team:

- ♦ Manager of System Protection Paras Patel
- ♦Power System Studies Supervisor Samantha Ball

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Aspiration from IEEE Seniors An Interview with Dr. Martin Bauer, IEEE senior and Senior System Engineer By Binhe Shi, IEEE student member and second-year student University of South Florida

At the important meeting with the official IEEE, I had a special connection with Martin Bauer, an experienced senior engineer who are expedited to share his story regarding to the jobs he dd since 1985. This important talk focused on Martin's important work and important developments in the dynamic field of electrical and electronic design.

The main purpose of the meeting is to publicize the tapes of Martin's advanced journey, share knowledge about the industry and gather valuable ideas for engineers who want to make their own place in the industry. The discussion began by conveying my interests, marking the beginning of the IEEE conference. Initially focused on the construction of Martin, which began in 1985, more than 20 years until 2006, Martin quickly implemented his plans.

As Martin talks about his work, the majority seems to be at the center of innovation, looking at the workflow. Said him that pushing innovation will be the fastest as well as the convenient way to save the program budget, in other case, many of innovations will also help the working efficiency of devices. He stressed the importance of reviewing the challenges facing the industry and re-examining work design to meet the times. The discussion began with Martin's extensive experience in many roles in many companies, and it was very revealing of his true commitment to Milton Bradley. Here, Martin played an important role in ensuring the seamless integration of tools at work and defining the important intersection between gaming and electronics, which had him stayed a long while, as said by him, the best time ever spent during his career.

The speech at the time spanned Martin's long career at Aldis and offered a fascinating insight into his connections in the vehicle management and control frameworks. Despite initial confusion due to its name and association with retailer Aldi, the company emerged as a pioneer in the new car industry and has since achieved complementary status with Cabot. Curiosity led me to investigate a more precise view of Martin's work, especially the application of innovation in work management. Martin carefully explained and emphasized the importance of documenting activities and other verifications. He explained how this data can be key to making informed decisions about inventory tracking and changeover planning. Martin has distributed the Close Camera framework in many US states and territories around the world, which had organized enormous serious traffic flows.

His explanation provides an overview of the company and its main influences in its operational department, showing the main developments and interests of the company. After the meeting, I expressed my gratitude for the experience that Martin had gained from endless meetings. The discussion ended with Martin wishing me the best of luck in my university and future endeavors, embodying the spirit of leadership and sharing that characterizes the IEEE community. Most importantly, this conference allowed a tour of the famous work of Martin Bauer and provided dynamic sessions and taught future engineers in the dynamic and ever-growing field of power plants and electricity.

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IEE FWCS THIRD END OF YEAR BANQUET

SAVE THE DATE

WHEN

Nov 16th, 2024 5pm

Contact Hermann Amaya

<u>Herman.amaya.us@ieee.org</u> WHERE

St. Petersburg Yacht Club 11 Central Ave. St. Petersburg. FL 33701



IEEE FWCS SunCoast Signal







Speakers · Recognitions & Awards · Opportunity to network with IEEE Fellows · Connect with Student Branch and Young Professionals · Amazing Yacht Club Dinner · Celebration of FWCS

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AMROC TOUR April 5, 2024 UNIVERSITY MALL, TAMPA, FL Article by Sean Denny (STEM Champion/RAS Chair), Barrett Werner (RAS Recording Secretary) Steve Willingham (AMROC Financial Director)



I have worked with another STEM Champion in Tampa Bay, Theresa "Terri" Willingham and her husband Steve since 2010. She was the head coach of the home-schooled FIRST Robotics Team "Team Duct Tape" with their son. Later, they re-designed the old computer center at the John F Germany Library in Downtown Tampa and converted into a Maker Space known as "The Hive." The IEEE FWCS Robotics and Automation Society (RAS) Chapter made our temporary home from 2014-2019 with monthly meetings to discuss robotics and host student robotics teams doing demonstrations.

Just before the Pandemic of 2020, they took over an old shoe store at University Mall near the USF Tampa Campus. It was converted into the AM-ROC FabLab. The **Advanced Manufacturing & Robotics Center** (AMRoC) is a program of the nonprofit **Foundation for Community Driven Innovation_(FCDI).** They are the producers of the annual Gulf Coast Maker Con and Roboticon Events.

IEEE FWCS Robotics & Automation Society (RAS) Chapter was invited to come to University Mall on April 5, 2024 for the *AMROC Tour*. Our newly appointed Recording Secretary Barrett Werner and I were given the tour led by Steve Willingham, FCDI Chief Financial Officer. All three of us happen to be IEEE members.







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As we visited, AMROC was showing a live feed of the FIRST Robotics competition in New Orleans. In addition to robotics, they have stations to learn advanced textile sewing equipment, and an eSports video game center. We were shown they have there are two types of 3D Printers--- Filament or Resin. They both take about the same time to render an object. However, the resin object must be cleaned and UV Light baked afterwards. The machine workshop contained CNC routers cutters and laser printers. Steve said his summer project is to replace the shop lighting completely with LED fluorescent tubes.

We walked to the center of the University Mall to see the FRC Robot Arena. The current game, named Crescendo, involves robots getting objects to the "AMPLIFIER", the "SPEAKER", sections, and finally the robot pulling itself up off the ground on a structure called the "CENTER STAGE". AMRoC will be repositioning the arena for the Roboticon event in October and hopefully adding bleachers.

Steve invited us to the Gulfcoast MakerCon coming in June 2024 and the FIRST ROBOTICON event this Fall. I would recommend the 45 minute tour of the AMROC for anyone.







Sean P Denny venner20@ieee.org IEEE Senior Member Teacher In Service, R3 Florida West Coast Section Chair/Secretary, IEEE FWCS Robotics and Automation



Robotics & Automation Society

FLORIDA WEST COAST CHAPTER



Minutes of the IEEE FWCS RAS Meeting

Prepared by Barrett Werner, Recording Secretary

Location: AMRoC Fab Lab, 2154 University Square Mall, Tampa, FL 33612 Date: 04/05/2024 Time: 3:00pm-4:00pm

The FWCS Chapter of IEEE's Robotics and Automation Society held a tour at the AMRoC Fab-Lab. The IEEE RAS Chapter plans to execute on the Vision of the Chapter's Founder, George Schott to "Learn, Do, Teach".

There were a total of 3 people made of 3 IEEE members and 0 guests present.

OFFICER ROLL CALL: RAS Chairman – Sean Denny

PRESENTATIONS:

Steve Willingham gave us a tour of the facility. He showed us their equipment which included:

Multiple 3D printers, both Filament and Resin based

Sewing and Textile machines 2 CNC Mills, Bandsaw and Drill Press Soldering and Electronics Station 1 Large Laser Cutter

Steve also showed us their onsite robot courses, one located in the FabLab and another located elsewhere in the University Mall.

We were invited to GulfCoast Maker Con coming in June and Roboticon coming in the Fall.

Adjourned at 4:00pm.

Respectfully submitted by Barrett Werner, IEEE FWCS RAS Chapter Recording Secretary barrettwerner@proton.me 813-924-5245

Florida West Coast Section - Upcoming Events Summary Vear 2024 Day / Date / Time **Organiza-Description / Venue / Attendance** Organizer / email / Website Monday, April 22 USF, HKN Kappa Xi Spring Induction Ceremony **Roberto Montero** University of South Florida, In Person IEEE-HKN@usf.edu Zero Downtime Architecture Friday, May 10 WIE, CS Diana Aristizabal OnLine, Virtual dianaaristizabal@ieee.org https://events.vtools.ieee.org/ IEEE WIE / YP Social Event Friday, May 10 WIE. YP https://events.vtools.ieee.org/ Friday, May 17 WIE, CS **Unintentional Business Owner** Diana Aristizabal Entrepreneurship Series Webinar #5 dianaaristizabal@ieee.org https://events.vtools.ieee.org/ Virtual Friday, May 31 PES/IAS Grounding and Bounding Free Webinar Kayla Allemang OnLine, Virtual kallemang@ieee.org Monday, June 10 PES/IAS **FECA Engineers Conference** Kayla Allemang June 10 IEEE Day: SERC Outreach (4 hours) TRC, kallemang@ieee.org July or August PES/IAS Advanced Distribution P& C Applications Kayla Allemang (TBD) Seminar kallemang@ieee.org Hot Springs Microgrid Kavla Allemang August or Sep. PES/IAS kallemang@ieee.org Nick Nechaiev Saturday, Sep. 28 CS, USF **Tech Horizons Summit USF Polv** In Person mnechaiev@ieee.org Friday, Nov. 8 PES/IAS Florida Rules, Laws and Ethics Webinar Kayla Allemang OnLine, Virtual kallemang@ieee.org Saturday, Nov 16 FWCS **FWCS Annual Awards Banquet** Hermann Amaya 6 pm - 10 pm St. Petersburg Yacht Club, In Person hermann.amaya.us@ieee.org Monday, Nov. 8 AESS/IMS/ Aerospace and Instrumentation Electron-Michael Mayor ic and Computer Systems CS USF Marshal Student Center - Ballroom - In michael.mayor@ieee.org Year 2025 Thursday, May IEEE The Conference application for 2025 Shaun Canavan IEEE 19th International Conference on 1st scanavan@usf.edu Automatic Face and Gesture Recogniton. Monday, Sep. 1st CS Intelligent Cybersecurity Conference Muhammad Al-Abdullah OnLine, Virtual mal-abdullah@usf.edu

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IEEE WIE/YP SOCIAL



CALLING ALL WOMEN IN ENGINEERING AND YOUNG PROFESSIONALS

COME JOIN US TO MEET OTHER STUDENTS AND ENGINEERS IN YOUR PROFESSION



FRIDAY, MAY 10TH, 6PM-8PM MILLER'S ALE HOUSE 2108 E FOWLER AVE, TAMPA, FL 33612

Register Here: https://events.vtools.ieee.org/m/416440

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SIGNIFICANT ACHIEVEMENT Florida West Coast Section Received a Certificate of Appreciation From Region 3 For The Senior Member Development Activity Which is Being Conducted by Hermann Amaya, Chair and Founder and Andrew Seely, R3 Member Communications Chair



Florida West Coast Section - SunCoast SIGNAL Advertising Rates							
	Contact: Michael Mayor			michael.mayor@ieee.org			
	1 Month		6 Months		12 Months		
Size	Member	Non-Member	Member	Non-Member	Member	Non-Member	
Business Cards	\$25	\$35	\$120	\$150	\$210	\$252	
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Full Page	\$140	\$182	\$670	\$838	\$1,175	\$1,410	
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The SunCoast Signal

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May 2024 - Calendar of Events (For more information see "Inside the SunCoast Signal" \rightarrow Page 1)						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
		*FWCS ExCom →Page 1			*Zero Downtime →Page 4 *WIE/YP Social →Page 14	
12	13	14	15	16	17	18
	*Signal Inputs Due End of Day				*Webinar #5 →Page 5	
19	20	21	22	23	24	25
26	27	28	29	30	31	
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