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Please Check the Website
Often for UPCOMING EVENTS
(Front Page Right Column)
<https://r3.ieee.org/fwc/>*

The SunCoast Signal

The Institute of Electrical and Electronics Engineers, Inc.

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PE Corner

Art Nordlinger, PE, Life Senior Member

More Stuff from the Board Meeting

An issue that was discussed during the August board meeting that caught my attention regards continuing education requirements for engineers who received their license during the current biennium. Up until a few years ago, if you received your license during the current biennium you were exempt from taking any continuing education in order to renew your license the first time. Currently you are still exempt from the 16 technical hours, but you do have to take 1 hour of laws and rules, and 1 hour of ethics. The board discussed this requirement, especially since the new engineer has to complete the Board's Laws and Rules Study Guide as a requirement for licensure. The matter was referred to the Rules Committee for consideration.

Another issue that was discussed is whether a licensee whose license is either suspended or revoked can still do engineering work under the responsible charge of a licensed engineer. Naturally, the licensed engineer would have to be the one to sign and seal any work produced by the engineer who is now unlicensed. Some of the discussion centered around the idea that the engineer's license may have been suspended for reasons other than bad engineering work. For example, this person could have been accused of misappropriation of a client's funds and due to bad bookkeeping couldn't prove otherwise. A case could be made that this person should still be allowed to do engineering work and for a company to be able to utilize their expertise, as long as the work is under the responsible charge of a licensed engineer.

Continued on Page 2

**Next ExCom Meeting
Tuesday, October 1st, 2024
Google Meet
Register with vTools**

<https://events.vtools.ieee.org/m/433405>

**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: Antra Malhotra,
 antra.malhotra@ieee.org
 Vice Chair: Rajeev Arora, rajeevarora@ieee.org
EMBS Engineering in Medicine & Biology Chapter:
 Sylvia Thomas, sylvia@usf.edu
PES/IAS Power & Energy/Industry Applications Joint Chapter:
 Chair, Kayla Allemang, kallemand@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
LIFE MEMBER Affinity Group: Chair Richard Beatie, PE,
 r.beatie@ieee.org
PACE Chair Dr. Jim Anderson. jim.anderson@ieee.org
YOUNG PROFESSIONALS: Chair TJ Ross, a.j.ross@ieee.org
CONSULTANTS NETWORK: Hermann Amaya,
 hermann.amaya.us@ieee.org
CONFERENCES: Leandro Maciel, Leandro.maciel@ieee.org
SENIOR MEMBER COMMITTEE: Hermann Amaya,
 hermann.amaya.us@ieee.org
USF STUDENT BRANCH ADVISORS:
 Dr. Andrew Hoff, Co-Advisor, hoff@usf.edu,
 Dr. Chung Seop Jeong, Co-Advisor, jeong@usf.edu
STUDENT ACTIVITIES
Student Activities Chair, Ronald Ambrosio
 ron.ambrosio@ieee.org
University of South Florida Chairs
 Student Branch - Caterina (Cat) Capuozzo,
 ccapuozzo@usf.edu.
 CS Anzhelika Kurnikova, akurnikova@usf.edu
 PES Nicole Ouellette, ouelletten@usf.edu
 HKN - Roberto Montero, roberto.montero@ieee.org
Florida Polytechnic University Chairs
 Student Branch, Pedro Seixas,
 pseixas1948@floridapoly.edu
 CS Zane Wolfe, zwolfe4232@floridapoly.edu
 PES Raymond Walker, rwalker4531@floridapoly.edu
 RAS - Sahil Talwalkar, tsahil@outlook.com
 HKN - Anthony Parrinello, aparrinello1386@floridapoly.edu
WEB MASTER: TJ Ross, a.j.ross@ieee.org
WEB PAGE: <https://r3.ieee.org/fwc/>

PE Corner - Cont'd from page 1

However, it was also pointed out that if the person's license was suspended for bad engineering work, the engineer under which this person is working needs to be extra careful to scrutinize the work, as their license could be in jeopardy if they sign and seal bad work done by another engineer. The bottom line, to my understanding, is that there is nothing illegal about this practice but it should be viewed on a case-by-case basis.

As I mentioned previously, up to now, FBPE meetings have been in-person only, except during COVID. That is about to change. Beginning with the October 2024 meeting, the October and April meetings will be virtual. The other 4 meetings each year will continue to be in person only. For those who are unable to travel to these meetings, you can now attend 2 meetings a year from the comfort of your home or office. I would also note that the in-person meetings for 2025 will be in Jacksonville, except that the December meeting will be in Tallahassee as usual.

With less than a year until renewal, better start earning those CEHs now!

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 SIGNAL 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**



**IEEE
Florida West
Coast Section**

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INSTRUMENTATION
& MEASUREMENT
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Science and Engineering Models - I

- Date:** Thursday, October 3, 2024
- Time:** 6:00 pm – 7:30 pm (Eastern Time)
- Speaker:** Michael Mayor, MSE, PE; Chair Joint Chapter AESS/IMS
- CEH:** 1 CEH will be awarded
- Cost:** IEEE Members: \$10; IEEE Members + CEH Certificate: \$20
- Location:** Virtual. Must register with the following Link
- Register:** <https://events.vtools.ieee.org/m/431021>
- Questions:** Michael Mayor, michael.mayor@ieee.org

Abstract: Engineering Models - I

This presentation will introduce Science and Engineering Models applied to the System Design and Development of Engineering Systems.

Scientific Models are representations of objects, systems or events and are used as tools for understanding the natural world. Models use familiar objects to represent unfamiliar things. Models can help you visualize, or picture in your mind, something that is difficult to see or understand.

Engineering Models are used to analyze and refine existing systems. These models can be used to test design features and communicate those features to others.

Models can be an extensive variety ranging from physical material models to mathematical models. In this presentation we will address mathematical models as applied to Electromagnetic Waves Propagation Systems

Speaker: Michael Mayor is an Independent Consultant providing Systems Engineering Services to the Aerospace and Defense Industries in the areas of Secure Information Systems and Secure Communication Networks.

Formerly, he was Vice President / Chief Scientist, Advanced Technology Research, in the Aerospace / Communications Division of ITT Defense Electronics. He conducted Research of Advanced Systems Engineering and Technologies for Secure Communications, Signals Intelligence and Emitter Geolocation Systems for Terrestrial, Airborne and Spaceborne Systems and their Subsystems.

He authored six patents in Spread Spectrum Communications and Digital Instrumentation. He received the ITT Defense & Electronics Engineered for Life Award, for his technical contributions in Communications, Geolocation and Microelectronics.

He is an IEEE Life Senior Member and holds a Master of Science in Engineering (MSE) from the School of Engineering and Applied Sciences at the University of Pennsylvania. He is a Licensed Professional Engineer (PE) in the State of VA, and a member of the National Society of Professional Engineers (NSPE).



Zero Downtime for Continuous Deployments using Kubernetes, Istio & Liquibase

Date: Friday, Oct 11, 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, and License State

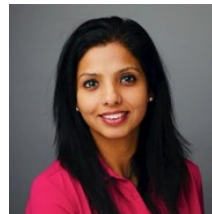
RSVP: Online at: <https://events.vtools.ieee.org/m/430911>

Questions: Diane 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. This webinar will focus on principles of Zero Downtime Architecture that organizations can adopt to deliver highly available and resilient systems. For organizations looking to stay competitive in the digital age, it is important that the systems are designed for continuous availability and reliability.

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 Geo-spatial solution for the System Performance platform.



She has had the opportunity to contribute 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.



IEEE
Florida West
Coast Section



Florida Laws & Rules and Ethics for Professional Engineers

Date: Friday, November 8, 2024

Time: 10:00AM – 12:00PM (noon)

Speaker: Mr. Art Nordlinger, PE,
IEEE Representative to the Florida Board of Professional Engineers

Location: This seminar will be presented virtually

Cost: \$30 IEEE Members / \$60 Non-Members / \$10 IEEE Student Members

CEH Credits: One (1) Rules & Laws CEH will be awarded; and

One (1) Ethics CEH will be awarded, which will meet the current requirements for PE Renewals. Be sure to enter your name and PE number on the signup website as it appears on your license.

IEEE Florida Provider Number is 0003849.

RSVP: Online at: <https://events.vtools.ieee.org/m/429516>

Questions: Art Nordlinger: a.nordlinger@ieee.org or Regan Sink: rjsink@ieee.org

Abstract:

The Rules and Laws That Govern the Practice of Engineering in Florida. This course is at a basic to intermediate level.

- ◆ Florida Statute 471 – Engineering
- ◆ FBPE and FEMC
- ◆ Florida Administrative Code
- ◆ Updates from NCEES and FBPE

Ethics and the Practice of Engineering in Florida. This course is at a basic to intermediate level.

- ◆ Basic Engineering Ethics Precepts
- ◆ Florida Administrative Code 61G15
- ◆ Recent Cases and Examples

Art Nordlinger, PE, retired over two years ago after a rewarding career in the electric utility industry, where his last position was Manager of Transmission Tariff and Contracts at Tampa Electric Company.

Art earned a Bachelor of Science degree in Electrical Engineering from Northwestern University in 1979 and his Master of Engineering degree in Electric Power Engineering in 1988 from Rensselaer Polytechnic Institute.

Art is a Life Senior Member of IEEE, Past Chair of the Florida Engineers Management Corporation (FEMC), and a registered PE in the State of Florida

BEAM STEM EVENT October 8, 2024

Saint Petersburg College, CC Building, 2465 Drew Street, Clearwater, FL
REGISTRATION AND AGENDA: <https://web.spcollege.edu/survey/36833>

St. Petersburg College (SPC) will be having an event on October 8, 2028, to address topics in STEM.

THE Clearwater campus students and staff are excited to invite you to join us
at the 2024 SPC BEAM:

Beam into Your Future Career Event. As part of SPC’s BEAM program, which has garnered tremendous enthusiasm from students and educators alike, your participation will be instrumental in shaping the future careers of our attendees.



Eta Kappa Nu

Unmanned Aerial Vehicles (UAV) Technology, Regulations and Applications

Date: Friday, November 22, 2024

Time: 9:30 am – 12:30 pm (Eastern Time)

Speaker: Vince Socci, AESS Distinguished Lecturer, Chief Technologist, On Target Motion

Cost: IEEE Members: \$25; Non-Members: \$50; Students: No Cost.

Register at: <https://events.vtools.ieee.org/m/431020>

Location: University of South Florida, Marshal Student Center; 2nd Floor
4103 Cedar Cir, Tampa, FL 33620

Questions: Michael Mayor, michael.mayor@ieee.org

Abstract: An Introduction to UAV Technology, Regulations, and Applications

Drone operations are becoming more commonplace in society. Any adult may purchase a drone for hobby operation and may choose to pursue licensing for commercial operation. A new pilot may become more effective by understanding drone technology. A new business operator can be more profitable by understanding relevant drone applications. The FAA has recently issued updated rules for drone registration, pilot licensure, and operation. The purpose of this lecture is to prepare the public to be knowledgeable users of drone technology, effective strategists in drone business applications, and good citizens of drone operator regulations and policies. An orientation of UAV technology, operating regulations, and business applications is provided.

Biography: Vince Socci, IEEE AESS Distinguished Lecturer, Chief Technologist, On Target Motion socci@ieee.org;

Vince Socci is Chief Technologist at On Target Motion where he provides systems engineering and program management services for safety-critical applications such as aerospace, automotive, rail, marine, and medical. His engineering career spans more than 35 years developing hardware, software, and systems in various fault-tolerant embedded controls applications.



He developed products for autonomous systems, UAVs, vehicle propulsion and communications, fuel control systems, power and energy systems, navigation systems, avionics, medical devices, flight control systems, diagnostic/prognostic systems, radar, electrical system, health and fault managers, X-ray scanners, engine and motor controls, automotive and aerospace control systems, and military ground electric vehicles. He has BS and MS degrees in electrical engineering, an MBA in technology management specializing in IP management, and an MA in mentoring and counseling. He is a certified Project Management Professional and serves on IEEE and SAE standards and technical committees.

IEEE FWCS

Gala

Banquet & Awards

Nov 16th, 2024 @ 6pm

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

Registration

<https://events.vtools.ieee.org/m/422295>

Event Website

<https://r3.ieee.org/fwc/banquet/>



FEATURING

- Keynote Speakers
- Recognitions & Awards

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AMAZING YACHT CLUB DINNER

- Celebration of FWCS 2024 Achievements





**IEEE FWCS ROBOTICS AND AUTOMATION TOUR AT FLORIDA
POLYTECHNIC COLLEGE; OCTOBER 4, 2024, AT 2:30PM**

Date: Friday, October 4, 2024

Time: 2:30 PM - 4:30 PM

Location: Florida Polytechnic, 4700 Research Way, Lakeland, Florida, 33805, IST Building

Register: <https://events.vtools.ieee.org/m/433377>

I spoke with several people at Florida Poly and it looks like we can set it to be October 4th after 2:30pm (depends on when everyone will be free after work). We can meet in front of the IST (the main classes building, near the drive-by loop and theres several chairs inside which we can wait at until everyone arrives). There is a \$5 day permit parking but we are looking to getting that exempt for this occasion (more details to come on that). Cameras are allowed as we tour the buildings, I would expect the tour to last 1-2 hours.

Thanks

Sahil Talwalkar

**Florida West Coast Section - Upcoming Events Summary**

*Attendance: V: Virtual --- P: In Person - V & P: Virtual and In Person

Year 2024

Day / Date / Time	Organization	Description / Location Link	V and/or P*	Contact email
Thursday, Oct. 1	AESS/IMS	Science and Engineering Models - I	V	Michael Mayor, MSE, PE michael.mayor@ieee.org
Friday, Oct. 11	WIE / CS / Young Eng.	Zero Downtime for Continuous Deployment https://events.vtools.ieee.org/m/430911	V	Diana Aristizabal diana.aristizabal@ieee.org
Sunday, Oct. 13	CS	2024 IEEE VIS Workshop on Visualization Education, Literacy and Activities (EduVIS) https://ieeewis.org/year/2024/welcome	P	Fateme Rajabiyazdi fateme.rajabiyazdi@carleton.ca
Friday, Nov. 8	PES/IAS	Florida Rules, Laws and Ethics Webinar	V	Kayla Allemang kallemang@ieee.org
Saturday, Nov 16 6 pm - 10 pm	FWCS	FWCS Annual Awards Banquet St. Petersburg Yacht Club	P	Hermann Amaya hermann.amaya.us.@ieee.org
Friday, Nov. 22nd 9:30 am - 12:30 pm	AESS/IMS - HKN	UAV and AI Technology Symposium USF Marshall Student Center Ballroom Register:	P	Michael Mayor michael.mayor@ieee.org

Year 2025

Thursday, May 1st	IEEE	The Conference application for 2025 IEEE 19th International Conference on Automatic Face and Gesture Recogniton.		Shaun Canavan scanavan@usf.edu
Monday, Sep. 1st	CS	Intelligent Cybersecurity Conference		Muhammad Al-Abdullah mal-abdullah@usf.edu

SunCoast Signal Advertising Rates

Size	1 Month		6 Months		12 Months	
	Member	Non-Member	Member	Non-Member	Member	Non-Member
Business Cards	\$25	\$35	\$120	\$150	\$210	\$252
1/4 Page	\$40	\$52	\$190	\$380	\$335	\$402
1/2 Page	\$75	\$98	\$360	\$450	\$630	\$756
3/4 Page	\$110	\$143	\$530	\$663	\$925	\$1,110
Full Page	\$140	\$182	\$670	\$838	\$1,175	\$1,410
Insert / Sheet	\$200	\$260	\$800	\$1,000	\$2,000	\$2,400

**IEEE FWCS
P. O. Box 7067
St. Petersburg, FL
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October 2024 - Calendar of Events (For more information see "Inside the SunCoast Signal" → Page 1)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
		*FWCS ExCom →Page 1		*Science and Eng. Models I →Page 3	*RAS Tour of Florida Poly →Page 8	*Technical Security Reliability Conf. →Page nn
6	7	8	9	10	11	12
	*Signal Inputs Due End of Day	*SPC Beam STEM Event →Page 5			*Zero Downtime for Continous... →Page 4	
13	14	15	16	17	18	19
20	21	22	23	24	25	26
23 / 30	28	29	30			