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*Florida West Coast
Section (FWCS)
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

Inactive and Retired License Status Explained

It is my hope that all Professional Engineers licensed in Florida will renew their licenses by Feb. 28, 2025. However, some licensees, particularly those who are retired or are no longer using their licenses, may be considering putting their licenses in “inactive” or “retired” status. Before taking that step it is important that the licensee understand the similarities and differences between these license statuses, and the process for status change.

The rules for inactive status are primarily found in Rule 61G15-22.002, Florida Administrative Code, *Licensure Change of Status*. Information and forms may be found on the Board’s website at fbpe.org, Licensure, Change of Status & Other Applications.

A licensee may place their license in inactive status by completing the *Application To change Status from Active to Inactive*, and remitting the fee specified by Rule 61G12-24.001, F.A.C. The Change of Status Fee (Active/Inactive) is currently \$93.75 plus a \$5 mandatory unlicensed activity fee. To maintain a license in inactive status, the licensee must continue to pay the renewal fee each biennium but does not need to take the continuing education hours. Naturally, an engineer may not practice engineering while their license is inactive.

An inactive license may be reactivated by completing the *Application for Change of Status From Inactive to Active*, and submitting the appropriate fee, which is the same as the renewal fee: \$93.75 plus a \$5 unlicensed activity fee.

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**Next ExCom Meeting
Tuesday, November 5, 2024
Google Meet
Register with vTools**

<https://events.vtools.ieee.org/m/438728>

**IEEE FWCS ExCom**

CHAIR: Michael Mayor, michael.mayor@ieee.org
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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
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LIFE MEMBER Affinity Group: Chair Richard Beatie, PE,
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PACE Chair Dr. Jim Anderson. jim.anderson@ieee.org
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 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

The licensee must demonstrate that they have completed the required 18 hours of continuing education.

Rules for retired status are found in Section 61G15-22.0017, F.A.C., *Application for Retired Status*. Information and the form may be found on the Board's website at the same location noted above. There is no fee associated with this status change. As with inactive status, once in retired status the licensee may no longer practice engineering. They are allowed to use the designation "Professional Engineer, Retired" or "P.E., Retired." It is important to understand that once a license is placed in retired status it may never be reactivated. If that licensee wants to again practice engineering they will have to reapply for licensure.

An application for retired status must be approved by the Board and must be submitted at least 30 days prior to the Board meeting at which it is to be considered. FBPE will approve the retired status provided that the licensee has no pending complaints against their Florida license or any PE license held in another state. This is an important qualifier! In a recent discipline case before the Board, the engineer requested that the case be dismissed and that their license be retired. The Board responded that under the rules, this path is not allowed, I'm sure to the engineer's chagrin.

There seems to be a misconception that simply not renewing a license will allow it to be placed in inactive or retired status. This is incorrect and may result in some unexpected consequences. If a license is not renewed it automatically becomes "delinquent." A delinquent license becomes "null and void" at the next renewal if the situation is not rectified.

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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 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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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

PE Corner - Continued from Page 2

In summary, those considering not renewing their license should carefully review the rules regarding inactive and retired status so that they can make an informed decision about which route to take. They should also understand the consequences of not taking action at renewal time. If you have questions, please contact the Board office.

Whether you are a PE looking to attain required CEHs, or an engineer looking to learn something new or keep current with the latest trend in the profession, IEEE has seminars that will meet your needs. And for the PEs, don't forget that the next renewal is only a few months away. Better start earning those CEHs now!



FLORIDA POLYTECHNIC TOUR

OCTOBER 4, 2024

FL POLYTECH UNIVERSITY

LAKELAND, FL

Article by Sean Denny (STEM Champion/RAS Chair),

Barrett Werner (RAS Recording Secretary)

Sahil Talwalker (FL Polytech RAS Student Chair)

IEEE Robotics Students invited Florida West Coast Section (FWCS) Robotics and Automation Society (RAS) to a *Tour of Florida Polytechnic University* on October 4th. We combined efforts with Life Member Affinity Group within the FWCS into a joint meeting to host. Due to the fact my car was under repair, Barrett Werner drove me to Lakeland, Florida. FL Polytech University is right off of I-4 and the original building looks like the flying saucer from the original **THE DAY THE EARTH STOOD STILL** (1951) movie. The students called the first building Innovative Science & Technology (IST) Center.

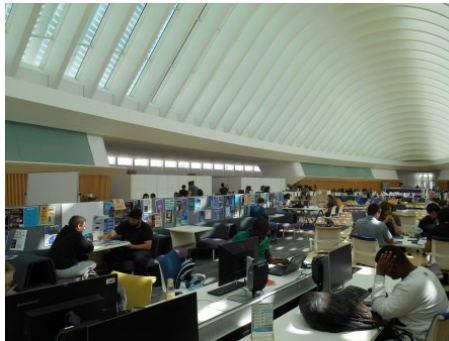
The University began in 2012 but classes opened August 2014. IEEE FWCS Power and Engineering Society took a group tour during the construction and the architect demonstrated there weren't any ninety degree angles in the building. RAS took the next tour April 7, 2017 with photos taken by Emma Alaba and Michael Okneski. Later, June 2017, Students and Faculty came out to St Pete Beach to demonstrate the Solar Power Vehicles at the **ROBOFEST WORLD CHAMPIONSHIP**.

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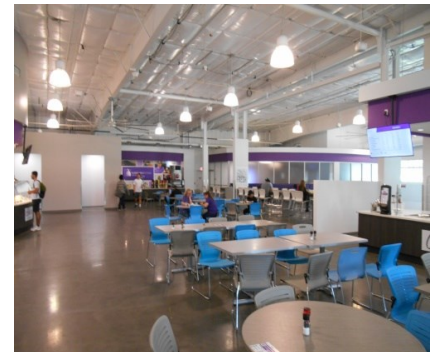
Barrett and I parked close to the IST building and met the Presidential Ambassador Anthony Parrinello. He explained they are the newest Public STEM School equidistant between Tampa and Orlando. The Southside Stairs leading up to the Saddle creek Library are wide for incoming freshmen. The North-side Stairs are narrow symbolizing the unique field of study when students graduate. We walked along the curved side corridor to the north side where we met the RAS Polytech Student Chair Sahil Talwalkar. Ascending the stairs to the student common area center, we could see the natural light from the arched domed ceiling. There were no books in the Saddle creek Library.

Ceiling solar fins adjust based on the position of the sun. Air conditioning vents were hidden behind the brown wall slats. Students were at stations with their laptops plugged in. A flyer from the PES IEEE Student Chapter promoted a Morse Code Typewriter Meeting from September 27th. Along the west corridor were study rooms, Career Center, and professor offices. A special bell was in a glass case. Anthony explained Senior Year students ring that bell when they get into higher education or find employment. There was a station to rent an iPad or Laptop for 24 hour emergencies. The hall ended in a Teaching Center Amphitheater where we descended back to the ground floor.



On the way to the dining hall, the Sahil and Anthony noted the campus was built on swamp land. The lake was aerated with pumps to reduce the mosquito population. There was a “moon-tree” planted that NASA donated which had been in orbit.

Students zoomed along the long path on skateboards. The dining hall had stations for Sandwiches, Pizza, Pork Chops, and Vegan Foods. We had cheeseburgers, fries and pizza for lunch.



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IEEE RAS Student members had their own office Room 2249 at the top of the stairs. They will be using it for storage and meetings. A lab upstairs challenged students to build bridges from paper. Anthony and Sahil led us to the big Teaching Auditorium.

With the flip of a switch, all the awning shades rose, revealing a beautiful panorama of the campus. We took a final group photo at the conclusion of the tour.

Photos by Sean Denny and Long Pong

**Sahil Talwalker, FL Polytech RAS Student Chair;
Barrett Werner & Sean P Denny
Secretary and Chair, IEEE FWCS Robotics and Automation**



AI Tools For Engineers: What, How, Where, and When?

Date: Thursday, 21 Nov 2024

Time: 06:00 PM to 07:00 PM

Where: Online!

Register online at: <https://events.vtools.ieee.org/m/437530>

Contact: Jim Anderson, jim.anderson@ieee.org Mobile: 813-454-3617

I think that we can all agree that the AI revolution seems to have arrived! As engineers, we all understand that the AI tools that are becoming available to us are just that – tools. Yes, yes – in the future AI robots may take over the world, but we are not there yet. Instead, engineers need to take the time to look at the AI tool that are being made available to us and decide which ones are going to be valuable. Once we've done that, we then have to decide how we are going to use them.

All of this AI stuff is new to all of us. Your IEEE FWCS PACE team is going to tackle the challenge that AI is presenting us with and you are invited to come along.

Biography: Dr. Jim Anderson received his Ph.D. in Computer Science from Florida Atlantic University, Boca Raton. He then went on and earned an MBA from The University Of Texas, Dallas. He has published over 125 books including CRC Press's "Software Defined Networking". Jim has worked for 16 different companies during his 33 year career including startups as well as Boeing, Siemens, Alcatel, Verizon, AAA, and Amgen. He has had opportunities to teach at Florida Atlantic University, Florida Polytechnic University, and The University of South Florida. Despite his busy work schedule, Jim has been able to publish 5 papers and has been an invited speaker 8 times. Jim has been an active member of the IEEE for over 30 years, is a senior member, and has held numerous leadership positions at both the local and regional level. Jim has been a member of Toastmasters for 22 years. He manages 5 highly successful blogs and is the owner of LinkedIn's most successful product management user group. His favorite movie is "The Fugitive", he owns a 70 lb Boxer and he is a fairly good cook.

We think that once you can get beyond all of the hype and the crazy market valuations of some of these AI companies, the AI tools that have been made available to us just might be useful. However, it is our responsibility to understand just exactly how we can go about using them.

Register to join us online and together we'll take a look at what AI tools engineers have available to them and, perhaps even more importantly, just exactly how we can go about using them to be more productive and make our lives easier.

Research Interests

Jim's research areas focus on using blockchain technology to improve and secure supply chains.

Teaching Interests

Programming languages; engineering design, software engineering, and ethics

Education

MBA in Marketing, University of Texas at Dallas (2002)

Ph.D. In Computer Science, Florida Atlantic University, Boca Raton (1997)

Masters In Computer Science, Washington University in St. Louis (1992)

Bachelors In Computer Science, Washington University In St. Louis (1986)

Honors and Awards:

2012 IEEE Tampa Bay Engineer of The Year

Key Activities:

IEEE Florida West Coast Section Computer Society Chairman



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

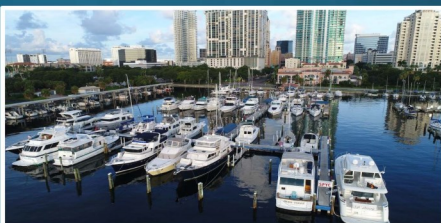
- Keynote Speakers
- Recognitions & Awards

NETWORK WITH IEEE FELLOWS

- Connect with Student Branch And Young Professionals

AMAZING YACHT CLUB DINNER

- Celebration of FWCS 2024 Achievements



September 24, 2024 Seminar: Big Data, IoT, & Data Management

Brought to you by: IEEE FWCS PES/IAS // WiE // USF Student Branch // Polytechnic Student Branch

IEEE FWCS PES and Women in Engineering (WIE) partnered with University of South Florida and Florida Polytechnic University to host an IEEE Distinguished Lecture on September 24th, 2024. John D. McDonald, P.E., an established expert in the electric utility industry, presented on the transformative topics of Big Data, Internet of Things (IoT), enterprise data management, and the data requirements of drones and other UAVs. With almost 50 years in the industry, John shared his expertise on how emerging technologies are reshaping the landscape of data management and utility operations.



John began by discussing key industry and societal trends, emphasizing the need for a holistic approach to grid operations and the importance of integrating technology, standards, and policy. He



elaborated on the different types of data—operational and non-operational—and their significance in power system automation. John stressed the criticality of converging Information Technology (IT) and Operational Technology (OT), eliminating data “silos” by building cross-functional enterprise systems. He also underscored the importance of grid modernization standards for integration and interoperability, crucial for the success of smart grid initiatives. Finally, John focused on the use of unmanned aerial vehicles (UAVs) and robotics in data collection, illustrating how these technologies provide new, valuable data for utility operations.

The lecture, held at the Marshall Student Center on USF campus, attracted an audience of students, faculty, and industry professionals eager to gain insights from McDonald’s extensive experience. The event was a notable success, providing attendees with a valuable introduction to data management in utility operations.

Continue to check the FWCS Suncoast Signal or visit our LinkedIn page:

<https://www.linkedin.com/company/ieee-pes-ias-fwcs/>



**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 |
|---|-------------------|---|-------------------|---|
| 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 | P | Michael Mayor michael.mayor@ieee.org |
| | | https://events.vtools.ieee.org/m/431020 | | |

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 |

WIE Planning Meeting

November 2 @ 11:00 am - 12:00 pm

Planning meeting Virtual: <https://events.vtools.ieee.org/m/435335>**Summit about Internet of Things**

November 23 @ 11:00 am - 6:00 pm

TechX IoT conference

Bldg.: TBD, 20341 South Campus Mail Center, Tampa, Florida 33620

Website: <https://events.vtools.ieee.org/m/436142>**Florida West Coast Section - Election 2024**<https://r3.ieee.org/fwc/fwcs/>**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 |

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33734-7067**



Florida West Coast Section Tampa

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November 2024 - Calendar of Events (For more information see "Inside the SunCoast Signal" → Page 1)

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---------|----------------------------------|------------------------|-----|---------------------------------------|--|---|
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| | | | | | | |