IEEE MIAMI SECTION

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IEEE Miami Section Invited Seminar Announcement

"Cybersecurity for Critical Control Systems"

Speaker: Eduardo Palma
Date: Thursday, August 18th 2022
Lecture: 11:30 am, EC 2330, Florida International University (FIU), EC Campus, 10555 W Flagler St Miami, Florida 33174

Join Zoom Meeting:
https://fiu.zoom.us/j/98705124055?pwd=dHZpN1p1bk9jMjhoMEJmeWNva0ZOUT09

Abstract:

Cybersecurity is presently an important topic for critical control systems, as those found in Electric Power Systems. The presentation we will cover an introduction to Industrial Control Systems (ICS). It will define the differences between enterprise networks and ICS networks. Next, the Cybersecurity's purpose and core concepts are defined. These are used to illustrate how to start thinking like a defender against malicious attacks. The understanding of the anatomy of a Cyber Attack is key to visualize the different vectors available to hackers, as well as defensive security strategies possible. Last, the presentation will analyze a case study: The Ukraine incident, December 2015, when the Ukrainian Power System Operators suffered a cybersecurity attack causing extensive damage.

Speaker's Bio:

Eduardo Sansoni Palma is a Senior member of the IEEE. Eduardo has more than 20 years of experience in the design and implementation of: cybersecurity solutions for OT networks, protection systems, automation solutions, and integration of standards for electrical generation, transmission, and distribution companies worldwide. In 2021, Eduardo received the CISSP (Certified Information Systems Security Professional) certificate from ISC2 as a specialist professional in cybersecurity. He currently serves as the Technical Manager for the Latin America and Caribbean region, directing and providing technical seminars and training courses. Recent project involving Cybersecurity: SEL-3620 implementation for SIEPAC's 12 substations across 6 central American countries. The Security Gateway SEL-3620 will be protecting from unauthorized local and remote access to the protection relays, as a substation proxy, enforcing role-based access control (RBAC), and password rotation on all protection relays.

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