Calendar of Events

UPCOMING EVENTS:

**Variable Frequency Drives - PES / IAS / LM Joint Meeting**
Date: 24 January 2020    Time: 09:00 AM to 02:00 PM
Location: PSE&G - Hadley Road Facility, Auditorium, 4000 Hadley Road, South Plainfield, NJ 07080
Contact: Ronald Quade - RWQuade@ieee.org, Ken Oexle k.oexle@ieee.org
Speaker: John Prill of Rockwell

**IEEE NORTH JERSEY SECTION – Short Courses**

**Introduction to Embedded Systems Using ARM Microcontrollers** – IEEE North Jersey/ComSoc
Date: 22 February 2020    Time: 10:00 AM to 4:00 PM
Location: ECE 202, New Jersey Institute Technology, Newark, NJ
Contact: David Haessig - davidhaessig@ieee.org, Yang - yangl@ieee.org, Amit Patel - a.j.patel@ieee.org

**Big Data Market Research in Seven Saturdays** (Instructor: Donald Hsu) - Education Committee/MTT/AP, ED/CAS
Date: 07 March 2020    Time: 09:00 AM to 12:00 PM (7 Saturdays, March 7, 14, 28, April 4, 11, 18, 25, 2020)
Location: ECE 202, New Jersey Institute Technology, Newark, NJ
COST: IEEE (& affiliate) members $500; Non-IEEE members $550.
Contact: Donald Hsu: yanyou@hotmail.com

**Project Risk Management in Seven Saturdays** (Instructor: Donald Hsu) - Education Committee/MTT/AP, ED/CAS
Date: 07 March 2020    Time: 12:00 PM to 3:00 PM (7 Saturdays, March 7, 14, 28, April 4, 11, 18, 25, 2020)
Location: ECE 202, New Jersey Institute Technology, Newark, NJ
COST: IEEE (& affiliate) members $500; Non-IEEE members $550.
Contact: Donald Hsu: yanyou@hotmail.com

**The 29th Wireless and Optical Communications Conference (WOCC 2020)** – IEEE North Jersey/CS
Date: 1-2 May 2020    Time: 8:30 AM to 5:30 PM
Location: 323, Dr. M.L.K. Blvd. New Jersey Institute Technology, Newark, NJ
Contact: Hong Zhao (201)-692-2350, zhaof@fdu.edu; Alfredo Tan, tan@fdu.edu, Howard Leach h.leach@ieee.org
Full paper submission due: 1/17/2020

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- This Month's Communications Society News from Around the World
- "New Miracle Material" - An article by Harry Roman
- The 29th Wireless and Optical Communications Conference (WOCC 2020)
**Introduction to Embedded Systems Using ARM Microcontrollers**

Come join us for an intensive and practical workshop in embedded systems, designed for electronics engineers, software engineers, and other technical professionals.

The workshop includes a commercial-grade embedded systems development board (Microchip SAM E70 Xplained Ultra) with a 32-bit ARM microcontroller (ATSAME70Q21) plus a peripheral board (Microchip I/O1 Xplained Pro)*. **This $145 value + handbook is yours to keep!**

You will learn how to use the companion Integrated Development Environment (IDE) and the 32-bit C compiler to create your firmware. You will also learn basic methods of debugging.

We will be reviewing the overall concepts of microcontrollers, interfaces, and electronic components.

We will go over software vs. firmware, program structure, peripheral interfacing, and basic real-time considerations.

This one-day workshop is structured with a few hours of interactive lectures, and a few hours of hands-on experience with the hardware and software. **Lunch is included!**

The student must provide their own computer with the IDE and C compiler pre-installed; both are available free from the manufacturer.

The IDE and the C compiler work on updated versions of Windows, macOS, and several Linux variants, allowing you a choice in platforms.

Your instructors are Jim Julian and Jay Morreale, both with degrees in electrical engineering and decades of diverse commercial experience.

**Get introduced to a new skill in just one day!**

*Presented in association with the IEEE North Jersey Section.*

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**What You Will Learn**

- What embedded systems are, and what they are used for.
- The basic end-to-end process of designing an embedded system, from components to working firmware.
- Skills to troubleshoot an embedded system.

**Prerequisites**

Know A general understanding of electronics and components, computer concepts, Interfaces, as well as basic experience in the C programming language.

Bring Portable computer, with the IDE and C compiler software pre-installed.

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**Interactive Lecture • Lunch Break • Hands-on Experience**

*Find out more: workshops.jimm Julian.com*

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<thead>
<tr>
<th>Discount Cutoff Date</th>
<th>January 11, 2020</th>
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<tbody>
<tr>
<td>Non-IEEE Member</td>
<td>$395 $495</td>
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<tr>
<td>IEEE Member</td>
<td>$295 $395</td>
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<tr>
<td>Last Day to Register</td>
<td>Saturday, February 8, 2020</td>
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<tr>
<td>Course Date</td>
<td>Saturday, February 22, 2020</td>
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*Included hardware is based on availability and is subject to substitution with similar items. **Last day for refunds.

For up to date information, visit our website: IEEE North Jersey Section. You do not have to be an IEEE member to attend any event. The Section Executive Committee roster is at: http://sites.ieee.org/northjersey/organ/ Prior registration is encouraged and appreciated.