

***FREE* Raspberry Pi 3 Workshop- at UEMCON**



2:00pm - 5:30pm

Saturday, 21 October 2017

Venue: Garden room 2



Columbia University, New York, USA

IEEE UEMCON 2017 which will provide an opportunity for researchers, educators and students to discuss and exchange ideas on issues, trends, and developments in Computing, Electronics and Mobile Communication. The organizing committee has graciously offered to provide 100 Student, on a first-come, first-served basis, with a FREE one day Workshop to promote academic projects in Electronics and Microprocessors, Robotics and Sensors among enthusiastic students.

The Workshop Chair will be **Prof. Indraneel Mukhopadhyay** of the Institute of Engineering and Management. The Workshop will cover the following topics:

1. Installation of the Raspbian Operating System and First Boot
2. Hands-on beginner's project using a LED, DHT11 Humidity and Temperature Sensor and an HC-SR04 ultrasonic ranging module.
3. Hands-on moderate skill level project using a RGB LED, a Capacitive Sensor, and a passive infrared sensor (PIR sensor).

The following software will be required during the workshop:

- a. Putty (<http://www.putty.org>)
- b. VNC for Windows (<https://nettest.realvnc.com/download>)
- c. Win32 Disk Imager (<https://sourceforge.net/projects/win32diskimager>)
- d. Raspbian Operating System (<https://www.raspberrypi.org/downloads/raspbian>)

For additional Information, please email Prof. Mukhopadhyay at ***imukhopadhyay@iemcal.com***

Students **MUST** bring their personal **Windows laptops with RJ45 port** for use in programming the devices during the Workshop. Participants can either share loaner Raspberry Pi 3 credit card-sized single-board computers, or, they may purchase their own Raspberry Pi 3 computer with a kit of all sensors used in the workshop for \$175 or, if they already have a Raspberry Pi 3 unit, the \$125 sensors kit.

Space is limited to the first 100 registrations. Register for the Workshop at:
<https://goo.gl/forms/BPILVBL6mU578xtU2>

AFTER REGISTERING – YOU MAY PURCHASE OPTIONAL COMPONENTS:

Students wishing to purchase the Raspberry Pi 3 Kit plus Sensors (\$175), or only the Sensors Kit (\$125 – but you must already have a Raspberry Pi 3) need to go to EDAS to pay by credit card at: <https://edas.info/registerPerson.php?c=23554>

I look forward to seeing you at the Workshop,

Dr. Satyajit Chakrabarti
Chair, IEEE UEMCON 2017