



## Thirtieth Annual

# Electrical & Computer Engineering Day

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**Thursday, November 10, 2016**

Villanova Room, Connelly Center

Activities are scheduled from 3:00 PM to 7:00 PM

**ECE DAY '16**

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The 30th annual ECE Day is Thursday 11/10/16. Events will start at 3:00PM. While we hope you will attend the entire day, we have structured the program so that you can attend those sessions that meet your schedule.

The three talks will delve into aspects of the Internet of Things as it relates to their industries. They will also provide insight into their careers and how they moved from studying textbooks at schools like Villanova to tackling complex real world issues that require not only technical and business knowledge, but challenged them to be very creative and daring.

In addition to the speakers, a select number of Villanova ECE senior project teams will participate by providing demonstrations of their in-progress capstone projects.

For further information please call the ECE office at 610-519-4970.

An agenda, registration information and short biographies of the speakers are presented in the pages that follow.

# ECE Day 2016

## Agenda

### ***Program Introduction***

#### **Senior Project Displays**

3:00 PM

A select number of senior project teams will exhibit displays summarizing their in-progress projects. ECE Day attendees are encouraged to meet the seniors and provide their opinions and ideas.

**Dr. Pritpal Singh, ECE Chairman**

**Edmond Dougherty, ECE Day Coordinator**

3:20 PM

**Sridhar Solur, Senior Vice President, Product Development**  
*Xfinity Home, IOT and Data Services*

**Comcast**

3:30 PM

**Michael Gallagher, and Ryan Rathbun, Senior Cybersecurity**  
*Consultant*

**Leidos**

4:10 PM

**Albert Ruiz, Managing Director – Digital & Internet of Things**

**Accenture Digital**

4:50 PM

***Dinner***

5:30 PM

## Registration

The talks are free, and registration is not necessary, however **the cost of dinner for non-students and speakers is \$40** which supports the cost of the food and beverage for the program participants.

To register for the dinner, please contact Ms. Helen Cook of the Villanova University ECE  
Phone: 610-519-4970. Email: [helen.cook@villanova.edu](mailto:helen.cook@villanova.edu)

# Speakers

## **Sridhar Solur** **Senior Vice President, Product** **Development** **Xfinity Home, IOT and Data Services** **Comcast**



As Senior Vice President of Product Development for Xfinity Home and Internet of Things (IoT) for Comcast Cable, Sridhar Solur leads the strategic development of products for the Xfinity Home business, from concept to creation. This includes devices and services in the IoT, home automation, and home security categories.

With more than 20 years of experience in corporate venturing, strategy, and product development, Solur is an intrapreneur, technologist, and business leader specializing in IoT and mobile.

He joined Comcast from Hewlett Packard (HP), where he was the founder and general manager of the company's wearables and IoT business, as well as the founder and World Wide director of HP's cloud and mobile printing business, known as HP ePrint.

Over the years, Solur established several patents on media delivery, location based services, and cloud connected objects. In addition, he is on the advisory board of several startups and a mentor to 500 Startups, Alchemist Enterprise accelerator, and RIVER- Virtual Reality Incubator.

Solur holds a Master of Business Administration from Boston University and a Bachelor of Science/Bachelor of Engineering in electrical engineering from the National Institute of Technology in India.

# Michael Gallagher, Ryan Rathbun, Senior Cybersecurity Consultant *Leidos*



Michael Gallagher is responsible for the overall technical design for Commercial Cyber Solutions' Managed Services offerings and infrastructure. He provides guidance to a skilled infrastructure team, providing oversight for all aspects of the infrastructure, using his background in networking, virtualization, storage, and operating system design.

Mike is a member of the team that designed and implemented Lockheed's own Enhanced Cybersecurity Services solution. Prior to joining the CCS team, Mike held leadership roles in projects for NASA and the Department of Defense designing and implementing high performance computing infrastructures for mission execution

and software development. Mike has implemented secure infrastructure designs and hardened virtual and physical systems. He began his career with Lockheed Martin developing and improving system architectures for naval command and control software.

Mike and Ryan will speak about "connecting the dots" and securing the Internet of Things (IoT). The emergence of network-enabled devices has expanded to even the most rudimentary of things, forcing us to rethink how we approach security in the new IoT age. If we do not fundamentally change the way security is addressed in these devices, the age of the IoT will be marred by headlines of exploitation and create the biggest security challenge the industry has ever seen. Appliances, such as the washing machine and refrigerator, can now interact with remote service centers to facilitate repair needs and maintenance scheduling. Cheap, network-enabled system on a chip (SoC) devices have empowered the "maker" culture, driving innovation and creativity. Doctors and patients benefit from real-time data produced by new, groundbreaking network-connected medical devices.

**Albert Ruiz**  
**Managing Director, Digital & Internet of Things**  
**Accenture Digital**



Albert (“Al”) Ruiz leads the Accenture Digital North American Go to Market for Connected Operations. Al is tasked with growing market presence in this emerging field and driving innovation and value for Accenture’s largest energy, chemicals & utilities clients. Al’s an 18 year veteran of the mobility and technology industry and has deep experience helping clients transform the way they do business through mobile technology.

In his current role he leads IoT Mobility Application Solutions team which has responsibility for solution development and delivery excellence. His team works with industry executives to define, deliver and deploy solutions that help companies mobilize and IoT enable their applications & products to drive operational efficiency as well as create new revenue opportunities.

Al has Bachelors in Mechanical Engineering from the State University of New York at Buffalo.

Al will discuss IoT as a dramatically growing factor, as powerful as the Industrial Revolution. Given this level of disruption, players in the Internet of Things are finding they have to experiment, iterate, learn and partner in new ways and via new business models. Al will discuss how clients are harnessing IoT technologies to become more efficient and create new business models.