



IEEE
AEROSPACE & ELECTRONIC SYSTEMS SOCIETY
&
CONTROL SYSTEMS SOCIETY



Title: *Ten Steps to Designing IoT Prototypes*

Speakers: Dr. Kevin W. Lu
Stevens Institute of Technology, klu@ieee.org

Date: September 22, 2016
Time: 5:00 PM to 5:45 PM (Refreshments at 5:45 PM)
Place: New Jersey Institute of Technology (NJIT),
ECEC 202 Conference Room

Registration: No Admission Charge. Please register at <https://events.vtools.ieee.org/m/41086>



Abstract:

Advances in single-board computers and cloud platforms facilitate prototype development for the Internet of Things (IoT). This presentation describes ten steps to designing IoT prototypes using a smart lighting project as an example. The first eight steps involve specifications of requirements, process, domain model, information model, services, complexity level, functional view, and operational view. The remaining two steps are device and component integration, and application development. The demonstration includes running a Django server and controller written in Python running on a Raspberry Pi.

Biography:

Kevin W. Lu is an Adjunct Professor of Electrical and Computer Engineering at Stevens Institute of Technology. He is a member of the IEEE Standards Association (IEEE-SA) Standards Board and a delegate to the Global Standards Collaboration task force on emergency communications. Previously, he was a chief scientist and executive director at Telcordia and a senior principal scientist at Broadcom.

Event Contact: David Haessig, O: 973-305-2583, C: 973-934-9659, Email: david.haessig@baesystems.com