

Welcome to the presentation on:

## Study of RF Interference and Propagation Inside Homes

**Afshin Amini**



**Where:**

Jacaranda Hall JD1590  
CSUN Campus  
Northridge, CA 91330

**When:**

**Thursday, Oct 20th, 2016**

4:00 – 4:45 PM: Presentation

**No Cost, Space is limited**

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**When: No Cost, Space is limited –**

### Short Description of the Presentation

- This talk is an excerpt from a Home Area Network Study. The Southern California Edison Home Area Network (HAN) team was tasked with implementing a study that includes measurements of HAN coverage, interference, and multi-path channels in the home

This study had benefits such as:

- Identifying the radio frequency coverage characteristics needed for a reliable communication between the Smart meter and HAN devices in single family homes (SFH) of different size and layouts
- Ensuring compatibility between the Smart meter and HAN devices in environments with extreme interference
- Informing the industry on the need for products to enhance RF coverage and mitigate RF interference and multipath issues

### Speaker's Biography:

As the Senior RF test Engineer at Southern California Edison, Afshin lead the smart meter Home area network, Advanced Metering Infrastructure (AMI) and smart grid communication testing. He was a subject matter expert for Radio Frequency testing of Smart Meter Home area network, and smart grid communication and related devices.

Prior to Southern California Edison, Afshin worked at Agilent Technologies developing emerging wireless standards Physical Layer software simulation and RF test instruments. At Hughes Corporation, Afshin was involved with modeling Satellite payloads, and Electric Vehicle motor control embedded software development.

Afshin has a Master's Degree in Electrical Engineering from University of Minnesota, Minneapolis and a Bachelor's degree in Electrical and Computer Engineering from University of Wisconsin Madison. He has also completed course work toward a PhD at USC.

He is currently the Product Manager for Konnected Universe which is developing a system that uses Near Field Communication (NFC) to detect when a handset device is being used by a driver of a moving vehicle and then disables texting.

### SFV Section Upcoming Events

For events and details please visit:

<http://ewh.ieee.org/r6/sfv/>