



IEEE El Paso Section

PRESENTS



USRP Software Defined Radio (SDR) Training



Neel Pandeya (BSEE, MSEE, IEEE, HKN) is a Principal SDR Engineer at National Instruments. His interests are in open-source software development, wireless communications; 4G/LTE 5G/NR, O-RAN; DSP and signal processing; FPGA programming; and software-defined radio (SDR). He was part-time faculty at Northeastern University. He is a co-founder and co-organizer of the New England Workshop for SDR (NEWSDR), and is a co-organizer of the GNU Radio Conference (GRCon), and the 5G Workshop at IEEE MILCOM.

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and running flowgraphs with GRC and Python. • Viewing packetized I/Q data with Wireshark. • Managing USRP FPGA images. • USRP best-practices, and more.

Attendees will gain a practical understanding of how to configure, operate, and program an USRP to implement a wide range of wireless systems and applications.

Implementing a 3GPP-compliant 5G/NR testbed using a USRP radio

Saturday February 14, 10:00 a.m. to 4:00 p.m.

This tutorial will show how to implement a 3GPP-compliant 5G/NR testbed using a USRP radio with the open-source software stacks, srsRAN from Software Radio Systems (SRS), and OpenAirInterface (OAI) from Eurecom, for research, development, and prototyping.

Attendees will gain a practical understanding of how to use USRP devices to implement 5G/NR wireless networks.

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