

November 2018

Rock River Valley Section
www.ieee.org/rrvs

Event

Sense

The **I**nstitute of **E**lectrical and **E**lectronic **E**ngineers, Inc.

IEEE RRV Section, Computer & Controls Chapter, YP, and WIE Section Meeting
SERVING IEEE MEMBERS OF NORTH CENTRAL ILLINOIS AND SOUTH CENTRAL WISCONSIN

WHEN Thursday, November 15, 2018

WHERE

Northern Illinois University
College of Engineering, Room EB311
590 Garden Rd.
DeKalb, IL 60115
Parking in lot 40 off Kiswaukee Dr. east of the building



AGENDA

6:00 PM Networking
6:30 PM Dinner
7:15 PM Presentation

Introduction to Controller Area Network (CAN) Bus Communications

Sunil Patel

Avionics Advisor, Cyient Inc.

This presentation will start with a history of the Controller Area Network (CAN) bus specification development over the years. It will cover the key features of a CAN bus that makes it different from most point to point networking architectures. The concept of an N port memory structure and a multimaster protocol will be discussed. The error detection and mitigation methods provided by a CAN help justify the use of this architecture for flight critical Aerospace applications. The key points for upfront system level considerations and analysis of incorporating a CAN bus in a system will be discussed.

Sunil Patel received M Tech from Indian Institute of Technology, Powai, India in Controls and Instrumentation and B E from Birla Institute of Technology and Science in Electronics, Pilani, India. Work experience includes 32 years in Aerospace Electric Power systems, currently working as an Avionics Advisor for Cyient Inc.

MEAL INFORMATION

Dinner entrée will feature your choice of Vegetarian or Non-Vegetarian meals.

Members & Student Members: FREE,
Non-members: \$10,
Student non-members: \$5
Presentation only: FREE

Please register online at

<https://events.vtools.ieee.org/m/181249>

or by emailing Diane Sennebogen at diane.brock@utas.utc.com by Thursday, Nov 15 at 1 pm. Please include the following: name, phone number, email address, and IEEE member number. The meeting is open to the general public.

IEEE Rock River Valley Section 2018 Calendar of Events

January 22: IEEE Chicago/Rockford Consultants' Network Meeting

January 25: RRVs Section Meeting

February 22: RRVs Section Meeting, Engineer's Week

February 24: [Discover Engineering at Discovery Center Museum](#)

March 29: RRVs Section Meeting

April 20 NIU Student Branch Networking Social at Northern Illinois University

April 26: RRVs Section Meeting,

May 31: RRVs Section Meeting with Chicago-Rockford Consultants' Network

June 12: EMC Seminar.

June 28: RRVs Section Meeting, Annual Picnic and Officer Elections at Hamilton Sundstrand Park

August 30: RRVs Section Meeting

September 27: RRVs Section Meeting

October 25: RRVs Section Meeting

November 15: RRVs Section Meeting at NIU

Stay Connected, Join us on Social Media

Facebook: <https://www.facebook.com/ieeerrvs/>

LinkedIn: <https://www.linkedin.com/groups/12087034>

IEEE Collabratec: <https://ieee-collabratec.ieee.org/>

Missed a meeting? Check out our Google Drive for previous presentations.

IEEE RRVs Google Drive: <https://drive.google.com/a/ieee.org/>

1. Login with IEEE account
 2. On the left menu, click "Shared with me".
 3. Click on "Members Folder"
 4. Browse folders for past meeting presentations
-
-

2018 IEEE RRVS Executive Committee



Rakesh Vasudevan
Chair
rakeshv@ieee.org
815-226-4299



Terry Johnson
Vice Chair
Terry.Johnson@utas.utc.com
815-394-2447



Patrick Conner
Secretary



Adrian Vandergrift
Treasurer
aevandergrift@ieee.org
815-226-2518



Andrew Baker
Communications Chair
abaker@ieee.org



Jitendra Solanki
PACE & MD Chair
J.solanki@ieee.org
815-394-5675



Joe Etminan
IAS Chapter Chair
joetminan@ieee.org
815-558-0007



Mark Harris
PELS Chapter Chair
m.harris@ieee.org
815-226-6098



Alkesh Patel
Computer & Controls
Chapter Chair
Alkesh.patel@ieee.org



Jamal Shafii
Co-EMI Chapter Chair
jamalshafii@ieee.org
815-394-5676



Steve Davidson
EMI Chapter Chair
steve.davidson@ieee.org



Larry Wachowiak
Life Members Chair
L.wachowiak@ieee.org



Marjan Shirani
WIE Chair
Marjan.shirani@hs.utc.com
815-394-2420



Prof. Don Zinger
NIU St Br Counselor
Educational Act. Chair
d.zinger@ieee.org
815-753-0540



Eduardo Vasquez
Young Professionals
Chair
evasquez@ieee.org



Bob Parro
Section Advisor
B.parro@ieee.org



Gary Blank
Section Advisor
G.L.Blank@ieee.org

Northern Illinois University IEEE Student Branch Officers



**Fahad
Mohammedhussein**
Chair



Salman Alzobidy
Vice Chair



**Mohammed
Maaz Ali**
Treasurer



Caleb Owen
Secretary



Mary Reinertson
President

Northern Illinois University IEEE-HKN Officers

Katie Berendt
Vice President &
Treasurer

Haley Tribo
Corresponding &
Recording Secre-



**IEEE Personal E-Mail Alias Service
with Free Virus Scanning**

The IEEE now offers an **Alias Service** in which all IEEE **members** can register a **personal alias** of their choice, which will forward E-Mail to their real internet e-mail address. Visit...

https://www.ieee.org/membership_services/membership/googleapps.html

Update Your IEEE Member Contact Info Online

<http://www.ieee.org/web/membership/home/index.html>

[Electronic IEEE Membership Application](#)

RRVS Calendar

Visit our website for the full 2018 meeting schedule

<http://sites.ieee.org/rockrivervalley/>

Join us on Facebook:

<https://www.facebook.com/ieeerrvs/>

Join us on LinkedIn:

<https://www.linkedin.com/groups/12087034>

IEEE Collabratec:

<https://ieee-collabratec.ieee.org/>

Rock River Valley Section Chapters

Industry Applications Society Chapter
Established 1992

Joint Computer/Control Systems Society Chapter
Established 1995

Power Electronics Society Chapter
Established 1996

Electromagnetic Compatibility Society Chapter
Established 2007

The Rock River Valley Section gratefully acknowledges the following companies and colleges for supporting Section Officers:

[UTC Aerospace Systems](#) • [Northern Illinois University](#) •
[Rock Valley College](#) • [River North Solutions](#)