



TCF'17™



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NJ Makers Day Partner

Saturday, March 18, 2017 at The College of New Jersey, Ewing NJ

Focus on

Autonomous Vehicles

3:40pm

Keynote Speaker: Raj Rajkumar,
Professor of Electrical & Computer
Engineering and Robotics Institute,
Carnegie Mellon University



Prof. Raj Rajkumar is the George Westinghouse Professor of Electrical & Computer Engineering and Robotics Institute at Carnegie Mellon University. He directs a number of labs at CMU, including the newly established University Transportation Center on Technologies for Safe and Efficient Transportation.

Featured Speaker: Greg Olsen,
"A Tale of Two Teslas"
Private Citizen Astronaut & Entrepreneur
on Driving A Tesla with Autonomous Control



**Admission: \$12.00 (advance)
\$15.00 at Door**
Free Parking / Wi-Fi
www.tcf-nj.org

at The College of New Jersey, Ewing, NJ
Saturday, March 18, 2017

9:00 am -- 5:00 pm

Registration/Flea Market open at 9 am, Talks start at 10:15 am.



David Soll
on Windows 10 and
Microsoft Office



Hands-on
Arduino Workshop
for Beginners



Author Barry Burd Speaks on
Functional Programming;
Bluetooth Beacons; Amazon Echo

INDOOR FLEA MARKET & VENDOR FAIR

**50+ Talks, Workshops, Tutorials,
Demos and Special Events!**

**Object-Oriented Programming University:
One Day of Short Courses**

**Microsoft Presentations and Special
Workshop on "Safe Computing"**

Drone/Quadcopter/Maker Demos

Tour the Sarnoff Museum of Tech.



**All-Day
Robotics
Pavilion
Room
ED-205**

DAVID SOLL ON WINDOWS 10

**Multimedia, Security,
Wearable Technology,
Games, Home Control
and Historic Computers**

**Ham Cram Session & Exam:
Get an Amateur Radio License in
one day at TCF! Cram begins at 9 am.**

Hands-on Arduino Workshop for Beginners

Raspberry Pi Tutorial and Projects

**TCF Saturday Banquet with Door Prizes.
See TCF Web Site to Buy Tickets.**

IEEE Integrated STEM Education Conference (ISEC)**

Saturday, March 11 – 8:00 am — 5:00 pm
at Friend Center, Princeton University, NJ
Theme: Connecting the Dots
Info: <http://ewh.ieee.org/conf/stem/>

IEEE/ACM IT PROFESSIONAL CONFERENCE

Friday March 17, 2017, 8:30 am — 5:00pm**
and continues as part of TCF's Saturday Talks.
For Conference Info and Fees see
<http://princetonacm.acm.org/tcfpro/>

**For additional TCF'17 info,
directions and advance tickets:
www.tcf-nj.org**

Saturday	ED-115	ED-211	ED-209	ED-208	ED-207	ED-206	ED-113	ED-110	ED-109	ED-107	ED-105	ED-103	ED & RWH
	Self-Driving Vehicles	Entrepreneurship	IT-PC	Social Media & Apps	History & Technology	Education & STEM	Technology & Hardware	Microsoft & Trends	Software/ App Dev.	Arduino & Software	OOP University	Amateur Radio	Exhibits
10:15am to 11:10am	Small Autonomous Vehicles <i>I. Patel et al</i>	Introduction to Python <i>A. Yudin</i>	Technical Credit in Systems & Software Engineering <i>B. Berenbach</i>	Workshop on Keeping Your Wordpress Site Safe <i>L. Justice</i>	Switch Mode Power Supplies <i>M. Blanco</i>	Getting Started: PCs/Tablets, Internet & Digital Photography <i>H. Hinitz</i>	GPS Secrets Updated <i>C. Lewart</i>	Microsoft Office in 2017 <i>D. Soll</i>	The Joy of Functional Programming <i>B. Burd</i>	Hands-On Arduino Workshop for Beginners Conducted by <i>K. Frolio</i>	Introduction to OOP Design Principles <i>M. Redlich</i>	Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm Conducted by the David Sarnoff Radio Club www.n2re.org	Special Exhibits and Demos Lockpick Village Workshop on How to Pick Locks, Repeated Hourly in Room ED-204 Quadcopter Demo Digital Photo Exhibit Vintage Club/Org Tables Tour the Sarnoff Museum of Historic Technology (9am-3pm in RWH, 2nd Floor)
11:20am to 12:15pm	A Tale of Two Teslas <i>G. Olsen</i>	Eight Lessons for Start Ups <i>M. Krupit</i>	SpecFiring: Converting Functional Spec Size to FPs <i>R. Gilmore</i>		Drones How they Work <i>M. Abrams</i>	Best Websites and Search Engines for 2017 <i>E. Kaplan</i>	Introduction to Robotics and the Robotics Pavilion <i>S. Kim</i>	Stock Market Timing Using Neural Networks <i>D. Fishbein</i>	Writing Code for Bluetooth Beacons <i>B. Burd</i>		Getting Started with C++ <i>M. Redlich</i>		
12:25pm to 1:20pm	Autonomous Vehicles: Risk Analysis <i>P. Bhavsar</i>	Why Free and Open Source Software Makes Business Cents <i>C. Hofstetter</i>	A Brief Background on Blockchain <i>J. Stollman</i>	Internet Job\$\$\$ <i>D. Hsu</i>	ENIAC Then and Now <i>B. Stuart</i>	Do It Yourself: Home Automation and More <i>N. Cherry</i>	How Safe are Wireless Devices? <i>A. Katz & J. Jesson</i>	Introduction to Windows 10 <i>D. Soll</i>	Getting Started with JavaFX <i>S. Jenkins</i>	(Limited Space; Bring Your Laptop! Load Free Arduino Software before attending: www.arduino.cc/en/Main/Software)	Advanced C++ <i>M. Redlich</i>		
1:30pm to 2:25pm	Self-Driving Navigational Platform <i>R. Kannan</i>	Getting a Software Patent <i>H. Cheung</i>	Printed Sensors for Cyber Threats <i>P. Fuhr</i>	Social Media Opportunities <i>D. Hsu</i>	Flying to the Moon / the Apollo Guidance Computer <i>F. O'Brien</i>	3D Printing <i>T. Zebo</i>	Practical Electronics Tricks of the Trade <i>J. Allen</i>	Socio-Political Impact of AI <i>M. Simchock</i>	Developing for Amazon Echo <i>B. Burd</i>		Getting Started with Java <i>M. Redlich</i>		
2:35pm to 3:30pm	Sensors Enable Self-Driving Cars <i>J. Jesson</i>	How to Effectively Present <i>T. Lombardi</i>	The Big Data Era <i>Haobo Lai</i>	Social Media Automation <i>M. Simchock</i>	8-Bit 'Bots - History of Robotic Kits <i>E. Koblentz & J. Brace</i>	Using the Intel Galileo as an IoT Building Block <i>E. Williams</i>	eBikes Have Arrived - Do Your Own Conversion <i>P. Bergsman</i>	Azure Active Directory <i>M. Sampath</i>	Amazon Web Services <i>D. Ferguson</i>	New C++ Standards <i>S. Jenkins</i>	Advanced Java <i>M. Redlich</i>		
3:40pm to 4:35pm	Featured Keynote Speaker: Raj Rajkumar, George Westinghouse Professor of Electrical & Computer Engineering, CMU, will talk on "The Autonomous Cadillac and The Future of Self-Driving Cars" in Room ED-115												

The 2017 TCF Computer Festival — Saturday, 18 March 2017

Keynote Speaker (3:40pm): This year's Keynote Speaker, **Raj Rajkumar**, directs a number of labs at Carnegie Mellon University, including the newly established University Transportation Center on Technologies for Safe and Efficient Transportation. He was co-director of the lab that created **the Autonomous Cadillac**. He led the Systems Engineering Group for Tartan Racing, **the winner of the 2007 DARPA Urban Challenge**, a high profile autonomous vehicle competition.



Featured Technical Speaker, Barry Burd (Room ED-109)
(10:15am): The Joy of Functional Programming.
(11:20am): Writing Code for Bluetooth Beacons.
(1:30pm): Learn how to develop software for the Amazon Echo.



3:40pm - Featured Keynote Speaker:
Raj Rajkumar,
Professor of Electrical & Computer Eng.,
Carnegie Mellon University,
in Room ED-115

Object-Oriented Programming University: Offers a one-day introduction to object-oriented programming by Mike Redlich, ACGNJ President, in Room ED-105.
Tour the Sarnoff Museum Collection of Historic Video and Electronic Technology: in Roscoe West Hall, 2nd Floor, at TCNJ. Open from 9am to 3pm.

ALL-DAY
ROBOTICS PAVILION
in Room ED-205

TCF'17
Saturday Evening Banquet
Greg Olsen,

Entrepreneur and Astronaut,
will talk about his experiences in space.
in the Decker Hall Dining Area
Admission: \$30
Tickets available on the TCF website
www.tcf-nj.org (by March 16th).
Pick up tickets on Sat. at VIP/Speakers desk.
Door Prizes!

Friday - ITPC 2017
12th IEEE/ACM Information Technology
Professional Conference at TCF

8:30am to 5:00pm, Armstrong Hall
Friday, March 17, 2017
(Conference registration required.)
Info/Fees: <http://princetonacm.acm.org/tcfpro>

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