



# Take Full Advantage of the NI Academic Program

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Richard Roberts  
Academic Marketing Engineer  
NI, Northern Europe

Morten Baltzer Kristensen  
Sales Development Engineer,  
NI, Northern Europe

# Why Did NI Invest in an Academic Program?

# 1976







**It all starts with academic.**  
At NI we're committed to  
preparing the students of  
today for the grand  
engineering challenges of  
tomorrow.

—Dr. James Truchard



# ENGINEERING GRAND CHALLENGES



Health



Sustainability



Security



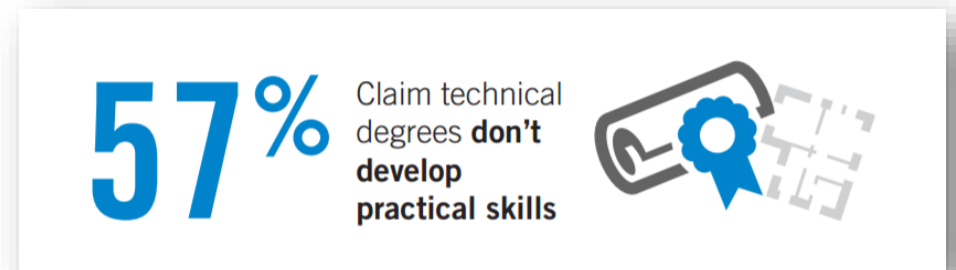
Joy of Living

1. Advance health informatics
2. Engineer the tools of scientific discovery
3. Engineer better medicines
4. Develop carbon sequestration methods
5. Reverse-engineer the brain
6. Provide energy from fusion
7. Provide access to clean water

8. Enhance virtual reality
9. Restore and improve urban infrastructure
10. Engineer better medicines
11. Advance personalized learning
12. Make solar energy economical
13. Prevent nuclear terror
14. Manage the nitrogen cycle

# DO ENGINEERING

Improving Student Engagement, whilst Bridging the Industry Skills Gap



Industry/Research

Student/Classroom

Measurement & Data Acquisition



Embedded Control & Monitoring



RF & Wireless Communications



Portable Instrumentation



Benchtop Instrumentation





Get Set!

NI Academic  
Program

Morten

Richard



# Agenda



**Course &  
Curriculum  
Support**



**Networking  
&  
Collaboration**



**Learning &  
Certification  
Resources**



**Technical  
Support &  
Consultancy**



**Project  
Resources  
& Guides**



**Recognition  
&  
Exposure**



# Agenda



**Course &  
Curriculum  
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**Recognition  
&  
Exposure**

# Academic Site License: Software

ALL

## LabVIEW

LabVIEW Professional Development System  
NI Signal Express  
VI Package Manager

## LabVIEW Add-Ons: Design

LabVIEW Control Design and Simulation Module  
LabVIEW MathScript RT Module  
LabVIEW Statechart Module  
LabVIEW Softmotion Module  
LabVIEW Digital Filter Design Toolkit  
LabVIEW Robotics Module

## LabVIEW Add-Ons: Interface

LabVIEW Datalogging and Supervisory Control Module  
NI Vision Development Module  
ECU Measurement and Calibration Toolkit

## LabVIEW Add-Ons: Analyze

LabVIEW Sound and Vibration Measurement Suite  
LabVIEW Advanced Signal Processing Toolkit  
LabVIEW Electrical Power Suite  
LabVIEW Spectral Measurements Toolkit  
LabVIEW Modulation Toolkit  
LabVIEW DataFinder Toolkit

## LabVIEW Add-Ons: Validate

LabVIEW Unit Test Framework Toolkit  
LabVIEW VI Analyzer Toolkit  
LabVIEW Desktop Execution Trace Toolkit

## LabVIEW Add-Ons: Deploy

LabVIEW Real-Time Module  
LabVIEW FPGA Module  
LabVIEW FPGA Xilinx Compilation Tools  
LabVIEW myRIO Toolkit  
LabVIEW roboRIO Toolkit  
LabVIEW ELVIS RIO Control Toolkit  
LabVIEW LEGO MINDSTORMS NXT Module

LabVIEW Communications System Design Suite  
Measurement Studio Enterprise Edition  
LabWindows/CVI

NI DIAdem Professional  
NI Multisim\*  
NI Ultiboard \*

NI Vision Builder for Automated Inspection  
NI Motion Assistant  
NI TestStand

\*Academic Site License with Multisim Option



Software Included in NI Academic Site License  
[ni.com/white-paper/8115/en/](https://ni.com/white-paper/8115/en/)



# Academic Site License: Key Benefits



## Make Better Use of Lab Time

The Academic Site License allows students to install NI software on their own computers so they can continue to develop systems outside the lab class. Assign projects, pre-lab work, tutorials, and workshops to make better use of your lab time.



## Save Time Through Central IT Management

Bring all your licensing maintenance and management under one roof. The Academic Site License is shipped with powerful IT management software that gives you one central location to manage, maintain, and renew.



## Be Successful at a Fraction of the Full Cost

Get access to the vast majority of NI software to build any application in any lab for one low price. NI grants software to academic institutions at a significant discount compared to normal cost.

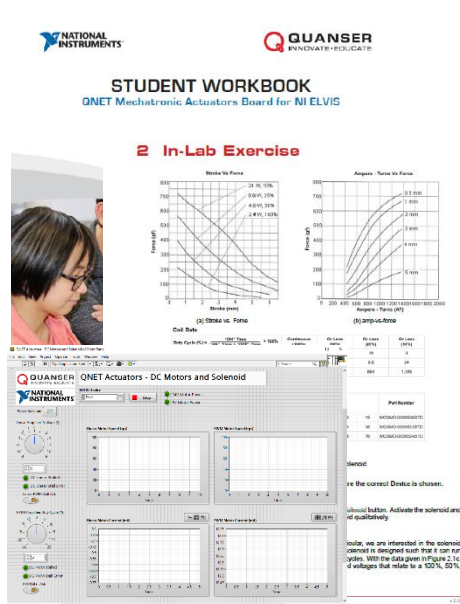


## Flexibility to Fit Your Needs

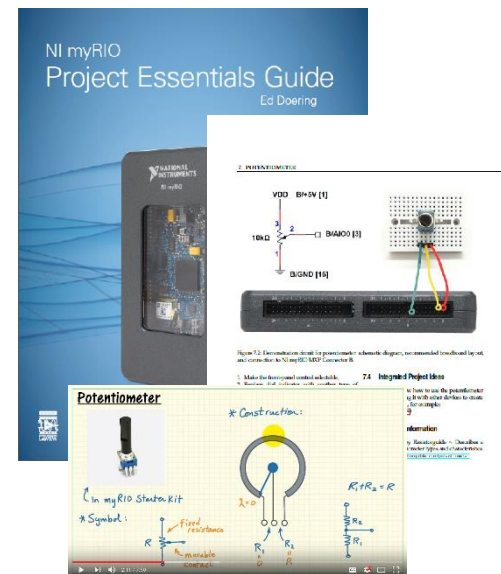
Whether you represent a group, department, faculty, or campus, we have the right license for you. The Academic Site License has the flexibility to fit into any application in teaching, research, or student design.

# Teaching Resources

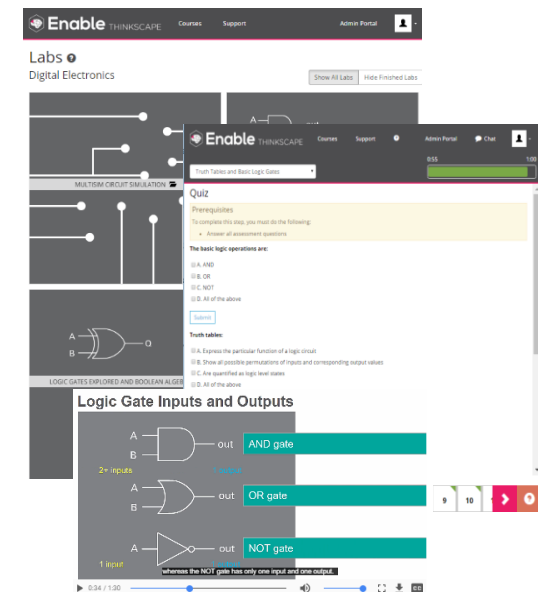
- Save time
- Get ideas
- Align with industry



Lab Manuals



Project Guides

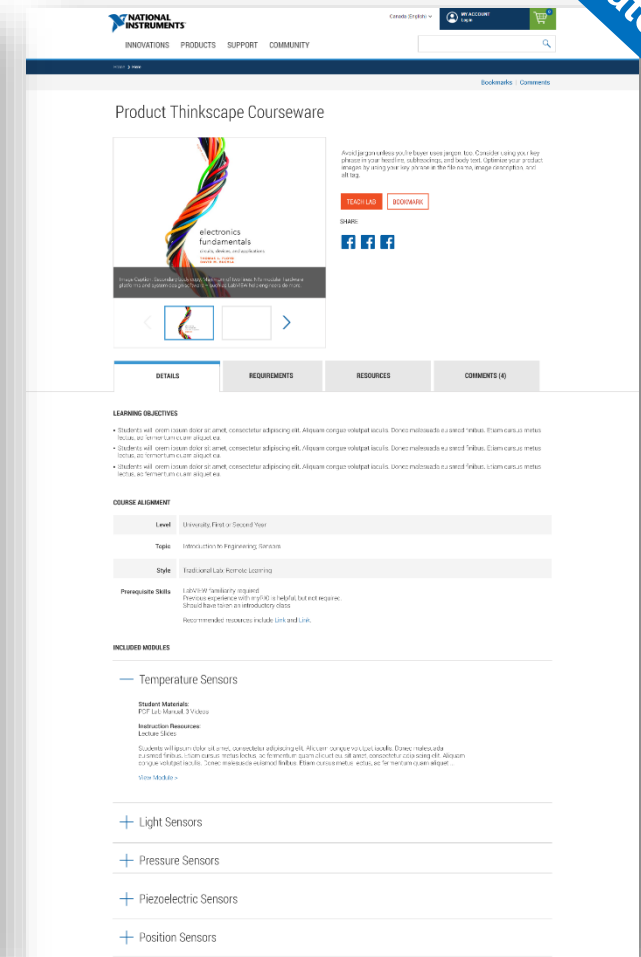
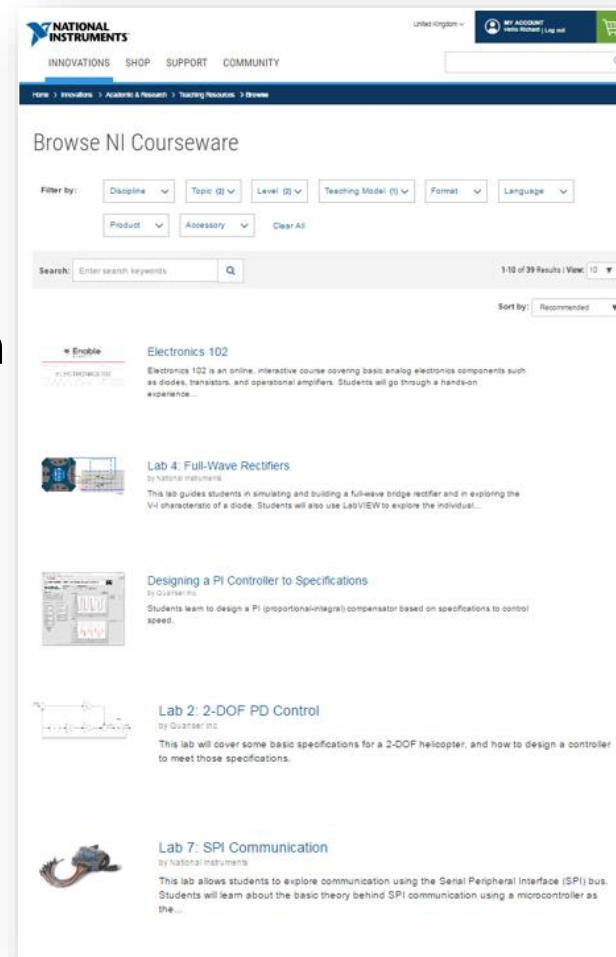


Online Courses

# Engineering Teaching Resources Portal

Resources developed by leaders in education to help implement a hands-on approach to engineering education

- New website for finding and accessing teaching resources
- Find full sets of labs and projects or single modules
- Get access to answer keys





# LabVIEW Academy



## Student Benefits

### **Diversify Your Skill Set**

Learn the skills to program in LabVIEW.

### **Boost Your Resume With LabVIEW Certification**

Add LabVIEW Academy and the CLAD designation to your resume.

### **Expand Your Network**

Connect with students and professionals who know LabVIEW and are seeking individuals with LabVIEW skills.

### **Train With Professional Educators**

Study LabVIEW in a classroom environment with professors who have experience in teaching and research.

## Institution Benefits

### **Equip Students to Succeed**

Give students access to industry-standard tools they can use in classes, labs, and beyond.

### **Gain LabVIEW Academy Recognition**

Receive recognition on ni.com for being an official LabVIEW Academy.

### **Access Learning Materials**

Gain access to LabVIEW Core 1 & 2 curriculums and the LabVIEW Academy program.

### **Reduce Time for Course Development**

Use NI-recommended syllabuses and complementary hardware to develop courses quickly.

# NI IoT Education Beta

Delivering IoT to the Classroom

Learn More and Apply Today

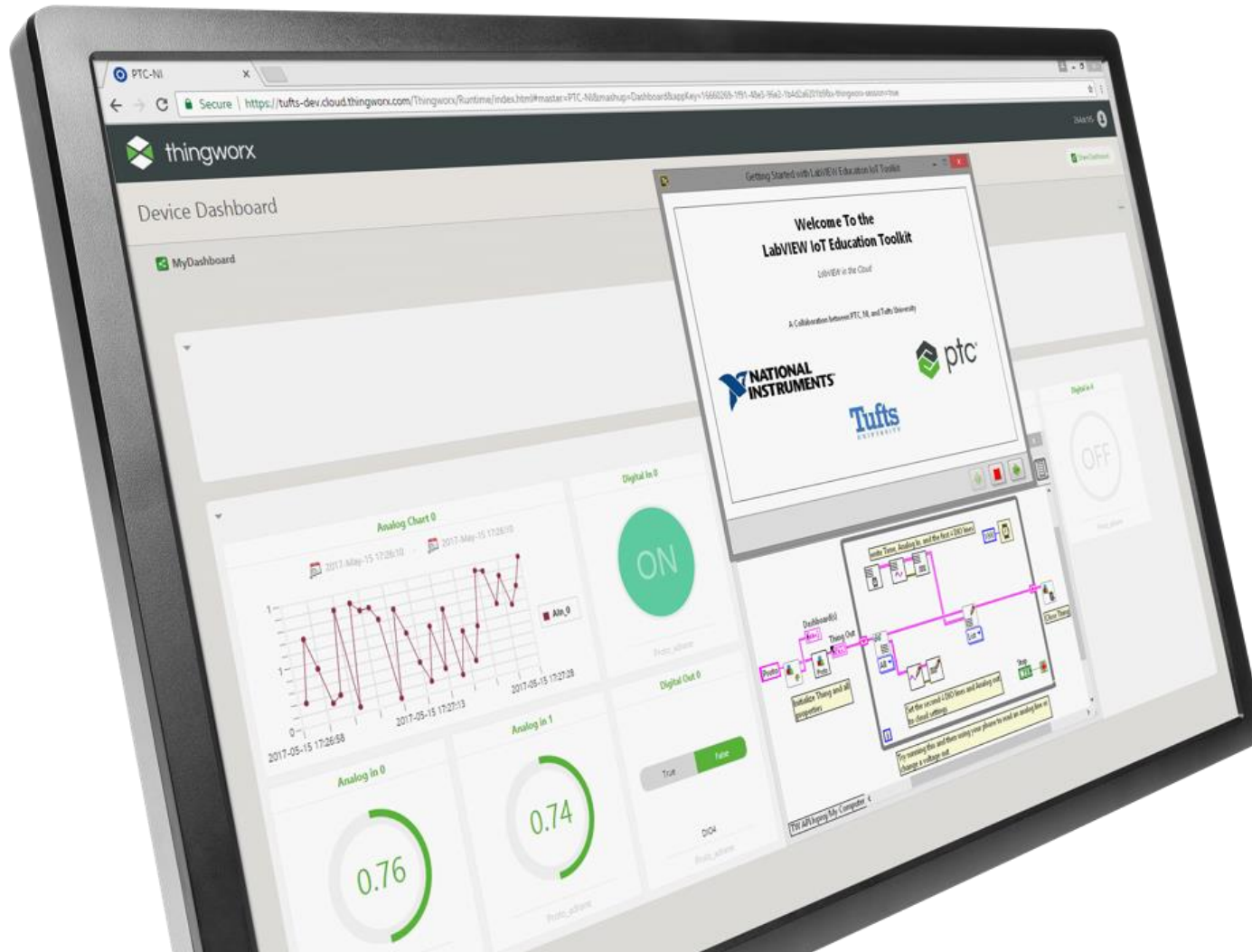
[ni.com/teach/iot](https://ni.com/teach/iot)



# NI IoT Education Beta

## Delivering IoT to the Classroom

Educator



LabVIEW/ThingWorx Integration for cloud-based analytics

Getting started utility makes setup quick and easy

Educator community hosted by NI, PTC, and Tufts faculty

Learn More and Apply Today  
[ni.com/teach/iot](https://ni.com/teach/iot)



Course &  
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# NI Travel Grants for Researchers

As part of our continued investment in academia worldwide, NI invites academic institutions to submit a proposal for support in funding travel for researchers presenting at scientific conferences.



## What:

- Rewards (up to US \$2K) to cover the cost for airfare, lodging, and conference registration.
- Applicable for researchers who have used the NI platform to generate desired research outcomes
- Researcher presents poster or oral session at a conference
- Reward covers domestic or international conference

## How:

- Single phase process; researchers submit 1 page proposal to be reviewed



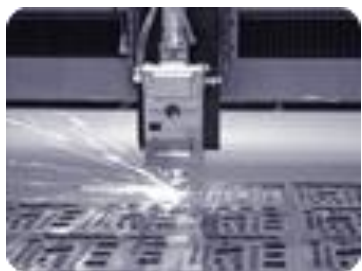
# NI Research Roundtables

To foster communication and collaboration among scientists and engineers around the world, NI invites key professors and industry researchers to discuss their fields and the challenges they face.



## Wireless Communication

5G and wireless roundtables bring together top research institutions, educators, and industry leaders to discuss the latest trends in wireless research. Past topics have included 5G wireless communications, massive multiple input multiple output (MIMO), millimeter wave (mmWave), and 802.11 and LTE physical layer prototyping.



## Cyber-Physical Systems

Cyber-physical system roundtables address the latest trends and research on systems which integrate computation, communication, and controls. Past topics have included verification and validation techniques, system architecture and framework for building cyber-physical systems, sensor fusion, testbeds for integrated human machine interfaces, and robotics infrastructure.

# Networking, Sharing Skills and Improving Knowledge

ALL

NIDays



LabVIEW Developer Days 2017

Build Code. Get Answers. Improve Your Skills.



## LabVIEW User Groups

- Supported by NI, hosted by the developer community
- Learn, support, network
- +60 user groups regularly hosted all over the world

# NI's collaboration with Researchers

Researcher



News

Current students

Current staff

Alumni

search

## Bristol and BT collaborate on massive MIMO trials for 5G wireless

Press release issued: 24 February 2017

The quest for highly efficient 5G wireless connectivity has been given a boost thanks to a collaboration between a team of 5G engineers from the Universities of Bristol and Lund, National Instruments (NI), and BT, one of the world's leading providers of communications services.

The research team has undertaken field trials of a massive MIMO system at the BT Labs in Adastral Park, Suffolk. The trials were conducted in a large indoor hall mimicking a stadium environment and outdoors within the Adastral Park campus.

The goals were to test massive MIMO spatial multiplexing indoors and improve the understanding of massive MIMO radio channels under mobile conditions with unethered devices. While carrying out these field experiments, the team obtained promising results indicating that this technology could offer spectrum efficiency figures in excess of the 100 bits/s/Hz mark, improving upon the capacity of today's long term evolution (LTE) systems by ten times.

It is expected that techniques such as massive MIMO, full spatial multiplexing - where multiple data streams are transmitted at the same time and on the same radio channel - become a crucial part of future 5G networks; the next mobile technology.

The research team, consisting of five PhD students from EPSRC Centre for Doctoral Training in Communications researcher from Lund University, under the leadership Mark Beach, worked with the BT research team, led by to assess the performance of a 128 element Massive MIMO operating at 3.5 GHz at BT's Adastral Park campus.

Initial experiments took place in BT's large exhibition hall, 12. PRN announced with wave systems, Microwave tools to handles Bi-ements, i



The Massive MIMO system during its recent trial at BT  
Image credit: University of Bristol



### More news

[200 years since Parkinson's disease was first identified](#)  
11 April 2017

[Bristol partner with Google to deliver next generation video technology](#)  
10 April 2017

[Bristol scientists to help heart patients by transforming veins into arteries](#)  
10 April 2017

[A very British celebration for Bristol graduates in Beijing](#)  
8 April 2017

[University welcomes world-leading experts in quantum technologies to Bristol](#)  
7 April 2017

[Bristol to partner in major new UK Housing Evidence Centre](#)

## PC's Telecom Blog

A resource for telecommunications -- wireless, wireline, networking, optical, T&M and products.

THURSDAY, OCTOBER 16, 2014

### NI collaborates with CROWD to define 5G wireless communications

USA: NI announced its collaboration with CROWD, the European Union Framework Project 7 (EU FP7), to define next-generation wireless 5G communications.

CROWD researches the combination of small- and large-density cells in a heterogeneous wireless network for an efficient architecture in which small cells meet traffic hot-spot needs while large cells offer reliable coverage for high-mobility users.

"Current demand is barely supported by existing network infrastructure, so we need higher points of dense networks," said James Kimery, director of RF, communications and software defined radio for NI. "However, network densification requires advanced self-organized network techniques to manage interference. The goal of CROWD is to develop higher layer algorithms to manage increased complexity due to densification."

NI, one of seven collaborators in the CROWD consortium, leads the testbed activities within the EU FP7 CROWD research project in the domain of future communication and ICT services infrastructures.

An NI PXI chassis running FlexRIO FPGA modules, NI 5791 RF front-end modules and LabVIEW system design software provides the infrastructure for an LTE/WiFi testbed for conducting experiments to showcase software defined networking concepts proposed by various partners in the project.

### About Me



[Pradeep Chakraborty](#)

\* Winner, World's Best Blog in Electronic Hardware - Electronics Weekly, UK (in December 2008). \* Honorable Mention for Best Technology Blog, Blognet Awards 2009 (in February 2009). \* PC's Semicon Blog was awarded the Top Digital Media Blog by Online IT Degree (in November 2010). \* Green Gadget of Texas, USA, awarded Pradeep's Point as the "Featured Tech Site" for 2011! \* Gorkana, UK, selected Pradeep's Point as the Blog Influencer 2012. \* PC's Electronic Components Blog was awarded Top Resource for Electrical Engineers 2013, by ElectricalEngineeringSchools.org, USA \* PC's Electronic Components Blog ranked among "The 101 Best Resources for Electrical Engineers," by Pannam Imaging,

20 October 2016

NI

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25

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9

## NATIONAL INSTRUMENTS (NI) COLLABORATES WITH SIT TO GROOM TELEMATICS TALENT FOR SINGAPORE'S INDUSTRY

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- Chemical Engineering and Food Technology
- Infocomm Technology
- Health and Social Sciences
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- Student and Campus
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6592 2102

## NATIONAL INSTRUMENTS CORPORATION

06/03/2017 | Press release | Distributed by Public on 06/03/2017 16:58

## NI Provides MmWave Real-Time Test Technology For The University Of Texas At Austin Center For Transportation Research

NI collaborates with UT Austin to supply real-time test technology for the autonomous driving research and prototyping testbed

**AUSTIN, Texas - March 7, 2017** - NI (Nasdaq: NATI), the provider of platform-based systems that enable engineers and scientists to solve the world's greatest engineering challenges, announced a new partnership with UT Austin's Situation-Aware Vehicular Engineering Systems (SAVES) initiative. NI is supplying technology for an mmWave real-time testbed to accelerate research on automated and self-driving cars. This testbed will play a key role in advancing autonomous driving by focusing on topics related to ultra-low latency, new radar waveforms and data analytics.

NI is delivering the technology for advanced driver assistance systems (ADAS) and communication test in the 76-81 GHz range, based on NI's mmWave front end technology and the recently released PXIe-5840 second-generation vector signal transceiver (VST). This testbed combines NI's second-generation VST with banded, frequency-specific upconverters and downconverters designed to test the 76-81 GHz radar band with 1 GHz of real-time bandwidth. Engineers can use this LabVIEW and PXI-based system for radar target emulation and hardware-in-the-loop (HIL) testing to determine the responsiveness of the vehicular network link between the sensors and the central processing unit in

## Related Announcements

### Nachrichten

**MESSE FRANKFURT GMBH**  
11.04.2017: Messe Frankfurt: Neubau der Messehalle 12

**REGIERUNG DES LANDES[...]**  
Rastow erhält Zuschuss für Umrüstung der Straßenbeleuchtung

**STADT FREISING**  
„Käfer mit Gewalt“ gesucht

### Technologie

**BBVA - BANCO BILBAO VIZCAYA[...]**  
El dato de hoy habla de... big data

**GOVERNEMENT DU GRAND-DUCHÉ DE[...]**  
SpaceResources.lu change d'identité visuelle et fait peau neuve sur[...]

**HOMAG GROUP AG**  
Quantensprung im Holzbau: Automatisiertes Dämmen von[...]

PR Newswire

News Solutions Resources

News in Focus Business & Money Science & Tech Lifestyle & Health Policy & Public Interest People & Culture







Search


## NI Collaborates With Cardiff University on Nonlinear RF Network Analysis Technology

News Highlights

- NI collaborates with Cardiff University on new technology for nonlinear RF network analysis and demonstrates solutions with significant measurement speed improvements.
- NI announces the acquisition of NMDG to support partners developing large-scale network analysis solutions.

Oct 31, 2012, 10:09 ET from National Instruments





National Instruments (NYSE:NI) National Instruments

Journalists and Bloggers

The news you need, when you need it.

NEW STORY IDEA

## RWTH AACHEN UNIVERSITY

ACADEMICS RESEARCH CORPORATE RELATIONS ABOUT RWTH

News Profile Excellence Initiative Institutions Working at RWTH Career RWTHextern Safety Contact & Directions

Mobile at RWTH Aachen

About RWTH News University News April 2013 National Instruments Funds RWTH Aachen Institute

## National Instruments Funds RWTH Aachen Institute

16/04/2013

National Instruments, NI, the renowned manufacturer of hardware and software tools for engineers and scientists is funding research and education at RWTH Aachen. The company is supporting the Institute of Networked Systems or INETS through funds for equipment and grants. Phil Wester, Senior Vice-President R & D at NI made the announcement during a discussion held in honor of the ten-year anniversary of the Aachen Institute. The funding encompasses the most modern research equipment, technical support, and a student support grant. A large portion of the funds will go to the research group for self-organizing networks, SON, within INETS, which is headed by Prof. Dr.-Ing. Marina Petrova.


The support aims at improving the research in the field of cognitive radio systems, future wireless communication systems, and 60 GHz radio technologies. Furthermore there will also be excellent possibilities to strengthen the Institute's teaching.

### CONTACT

Marina Petrova

+49 241 80 20903

Send Email







Course &  
Curriculum  
Support



Networking  
&  
Collaboration



Learning &  
Certification  
Resources



Technical  
Support &  
Consultancy



Project  
Resources  
& Guides



Recognition  
&  
Exposure



# No Train, No Gain

## Academic Self Paced Online Training

If your University holds an active Academic Site License; educators, researchers and graduate students are entitled to free Self-Paced Online Training.

# Self-Paced Video Training for Students

Use this set of step-by-step tutorials, example projects, and short videos to get started with NI tools.



## Learn LabVIEW

To begin, you need to understand how to work within the LabVIEW environment. Watch these video modules to learn the core components that can help you program in LabVIEW.

[Watch the video modules for Learn LabVIEW](#)



## Learn DAQ

Once you are comfortable with the basics of the NI LabVIEW environment, watch these video modules to learn how to do simple tasks with LabVIEW and a DAQ (data acquisition) device.

[Watch the video modules for Learn DAQ](#)



## Learn RIO

Once you are familiar with NI LabVIEW, watch these modules to learn how to assemble a RIO system, understand embedded programming with LabVIEW, and build your first application.

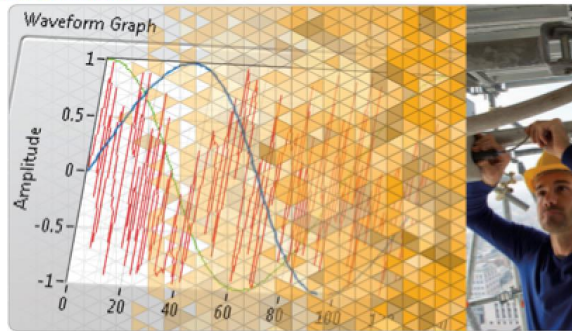
[Watch the video modules for Learn RIO](#)



# LabVIEW Student Ambassadors



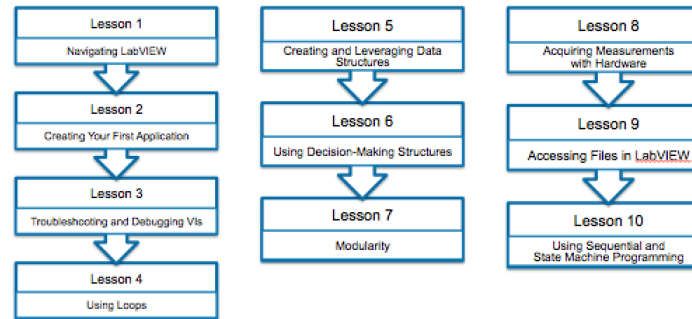
## LabVIEW Core 1



3

Welcome to LabVIEW Core 1

## Course Learning Map



7

## Lesson 1 Navigating LabVIEW

Recognize the main components of the LabVIEW environment and create a new project and VI.

- A. What is LabVIEW?
- B. Project Explorer
- C. Parts of a VI
- D. Front Panel
- E. Block Diagram
- F. Searching for Controls, VIs, and Functions

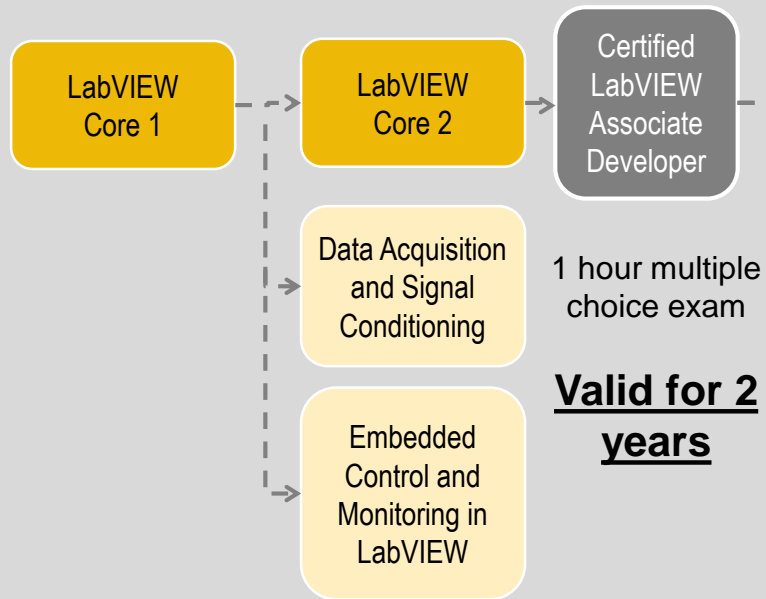
8



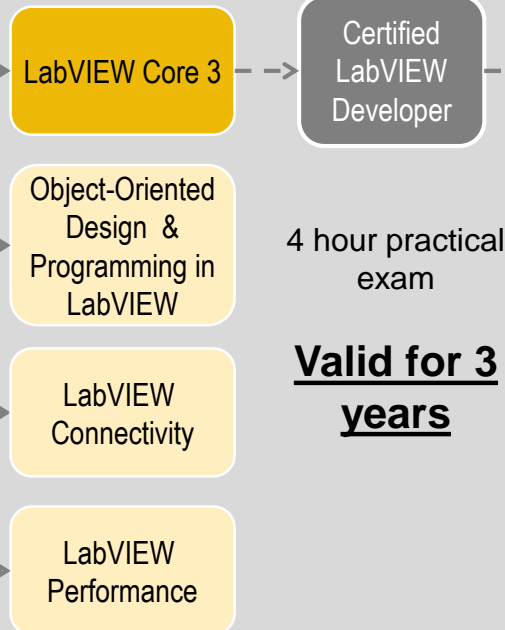
Become a LabVIEW Student Ambassador  
[ni.com/academic/ambassadors/](https://ni.com/academic/ambassadors/)

# NI Training and Certification

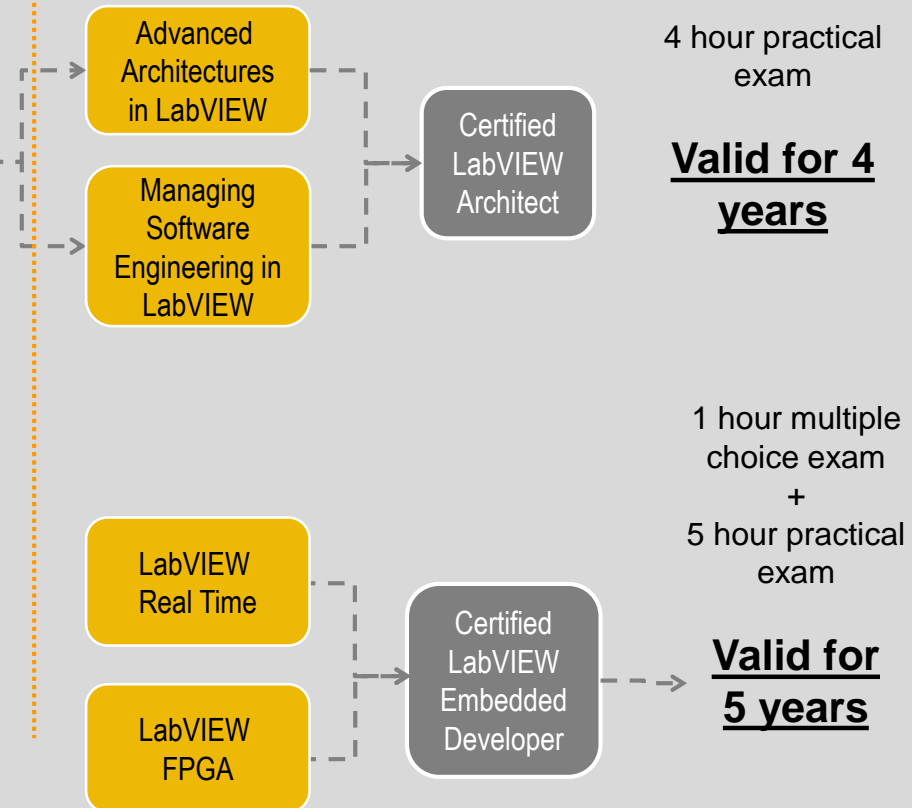
## New User



## Experienced User



## Advanced User



Recommended course   Optional course   Optional certification

# NI Proficiency Badge Program

ALL

**Learn** valuable engineering and product skills to be successful with your next project.



**Prove** knowledge with online assessments.

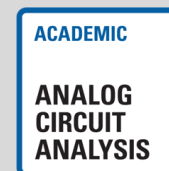
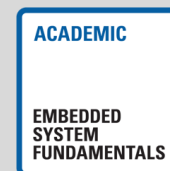


**Claim** and download your badge.

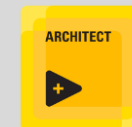
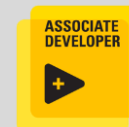
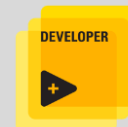
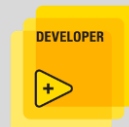


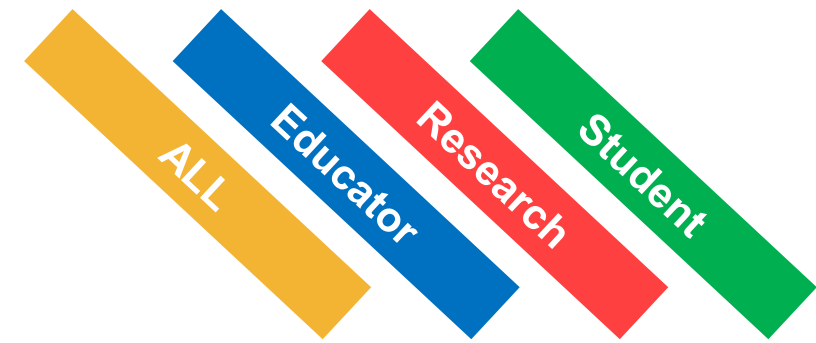
**Share** your success by seamlessly adding your badges to your LinkedIn profile, CV or email signatures

## Proficiency Badges



## Certification Badges





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**Project  
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**Recognition  
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# Support Channels

ALL

Email/Web



Direct, trackable communication with  
an NI Engineer  
+ Great for NI technology advice and  
guidance

Phone



Forums



Interact with a community of thousands of active LabVIEW users  
+ Great for application advice and guidance

Service Request Manager

My Service Requests

Open a New Service Request

FAQ's

My Support Services

You are entitled to phone and email support.

My Profile

Richard Roberts  
National Instruments  
Measurement House  
Newbury Business Park  
NEWBURY  
RG14 2PS  
01635 572481  
richard.roberts@ni.com

My Service Requests

Welcome to the Service Request Manager. Here you can create a Service Request as well as access online support resources. If you have a NI Service Program, you can also view and update your SR within the Service Request Manager and get direct Technical Support from an Applications Engineer.

1-1 of 1

Service Request Data

SR Number	Summary	Product	Creation Date	Owner	Status
1278496	Faulty USRP	Unevaluated	2013/02/27	GSI PROJECT	RMA Closed

Feedback

Please give us feedback on your experience in the Service Request Manager. If you need support on NI products, submit your request through "Open a New Service Request" to receive a response.

Service Request Manager

# Alliance Partner Network

ALL

1000+ Alliance Partners

NI Offices  
NI Alliance Partners



Electronic  
Design



Embedded  
Control



Wireless  
Communications



Machine  
Vision



Education  
& Research





Course &  
Curriculum  
Support



Networking  
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MAKER PROJECTS AND INSTRUCTIONS TO INSPIRE, CHALLENGE AND EDUCATE



AR Drone 2.0 Multiple Manipulation



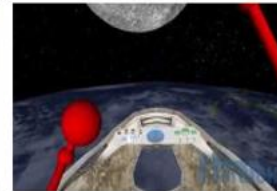
Controlling Mover4 Robot Arm from LabVIEW



Mind-Melting Slit Scan Photography



2048



VR with Oculus Rift, Kinect and LabVIEW



Full Scale R2D2 Powered by myRIO - Intro



Project RK-1

FREE API LIBRARIES TO TAKE CONTROL OF POPULAR COMMERCIAL DEVICES

Adept



AR Drone



Data Dashboard



Kinect One



Kodi



Leap Motion Controller



LEGO Mindstorms



LINX



Nest



Phillips Hue



PS4 Controller



Xbox One Controller



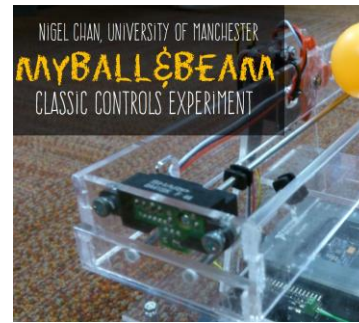
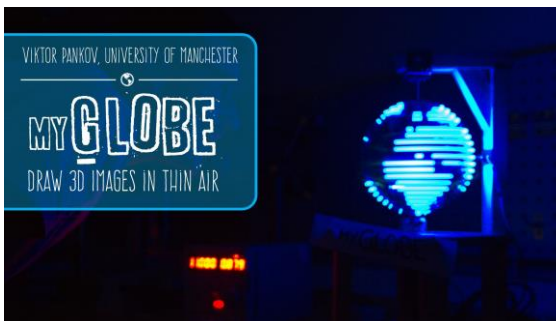
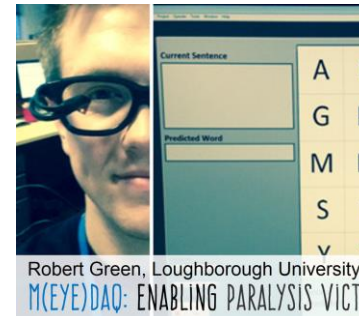


# HACKER'S HANDBOOK

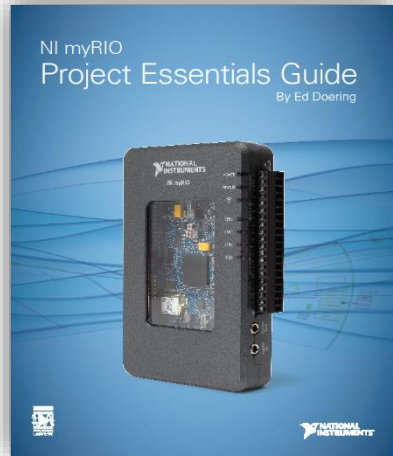
## COMPENDIUM OF MAKER PROJECTS

<http://bit.ly/1TpVA1s>

Student



# Project Essentials Guides



## Project Essentials Guide

For students who are completing projects at all levels.

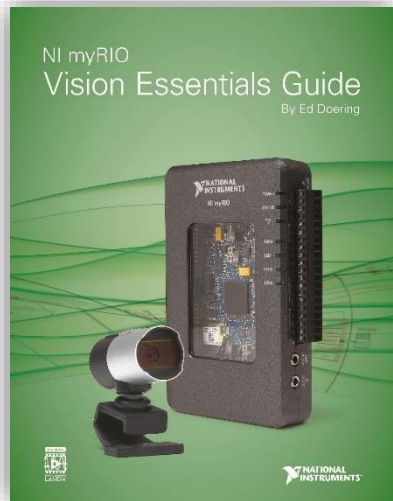
The guide breaks down wiring, I/O requirements, device theory, and programming for 40 common sensors and actuators



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## Vision Essentials Guide

Brings the exciting world of machine vision to myRIO projects

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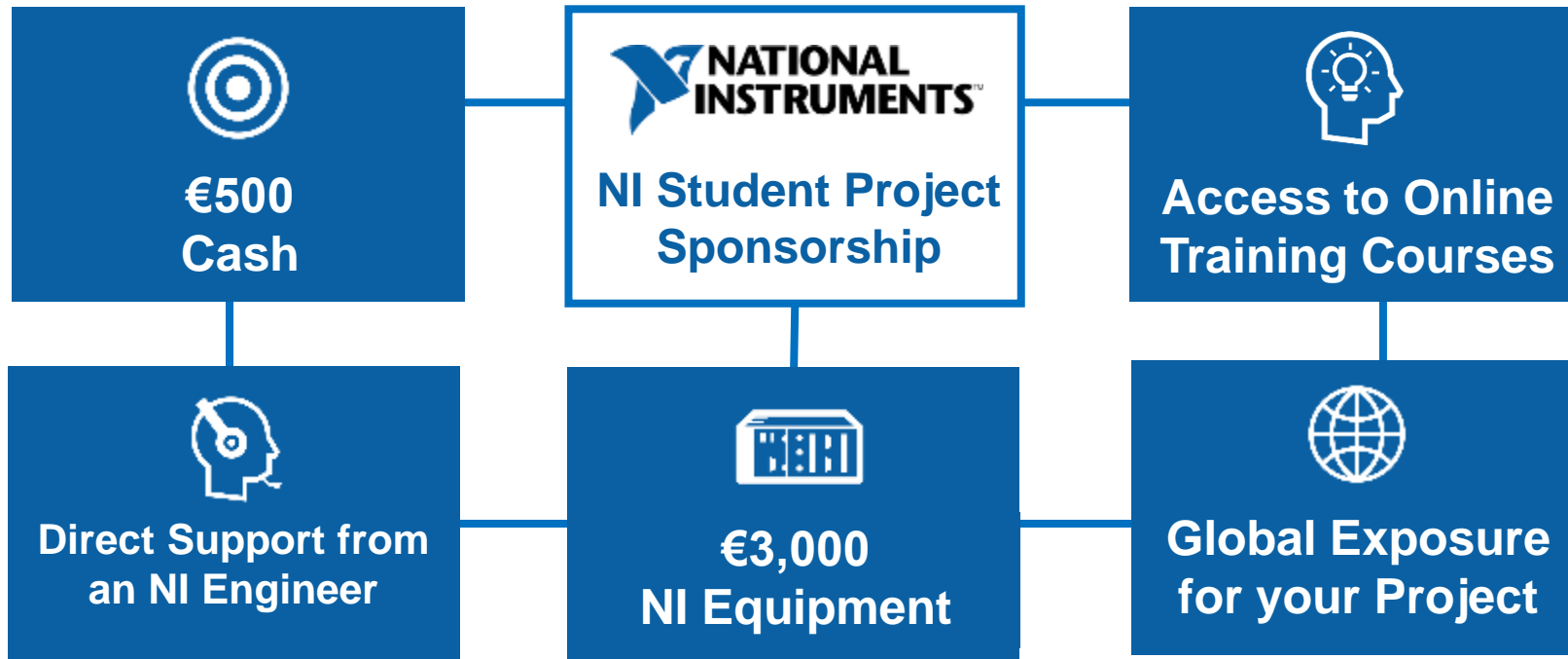
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## Which device best suits your project?



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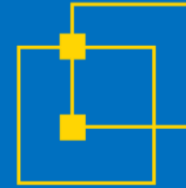


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Student

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Show us how you are incorporating LabVIEW into your innovative projects for a chance to get your work published and win prizes.

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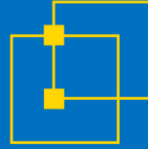
- **Every Approved Entry:** 380SEK Voucher for [www.presentkorttorget.se](http://www.presentkorttorget.se)
- **Local Grand Prize:** 6350SEK Voucher and Industry Award Recognition
- **Global Grand Prize:** Global Award Recognition + Trip to NIWeek in Austin, Texas

**Deadline**  
**31 MAY**



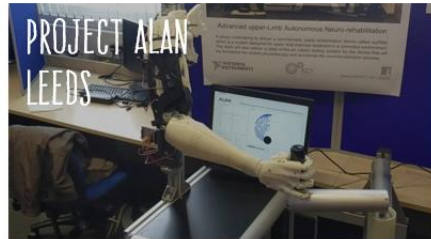
Submit Your Project at  
[sweden.ni.com/studentdesign](http://sweden.ni.com/studentdesign)

# STUDENT DESIGN COMPETITION



## Top 10 Projects Worldwide 2016

Student







NI Engineering Impact Awards



# NI Engineering Impact Awards

The NI Engineering Impact Awards is a technical application contest, showcasing the most innovative projects based on NI software and hardware. This is your chance to share your innovations with the NI community and network with NI leadership, trade press, industry leaders, and other category winners at the invitation-only awards ceremony and dinner.



Explore Previous Winners  
[ni.com/impactawards/explore\\_2016.htm](http://ni.com/impactawards/explore_2016.htm)

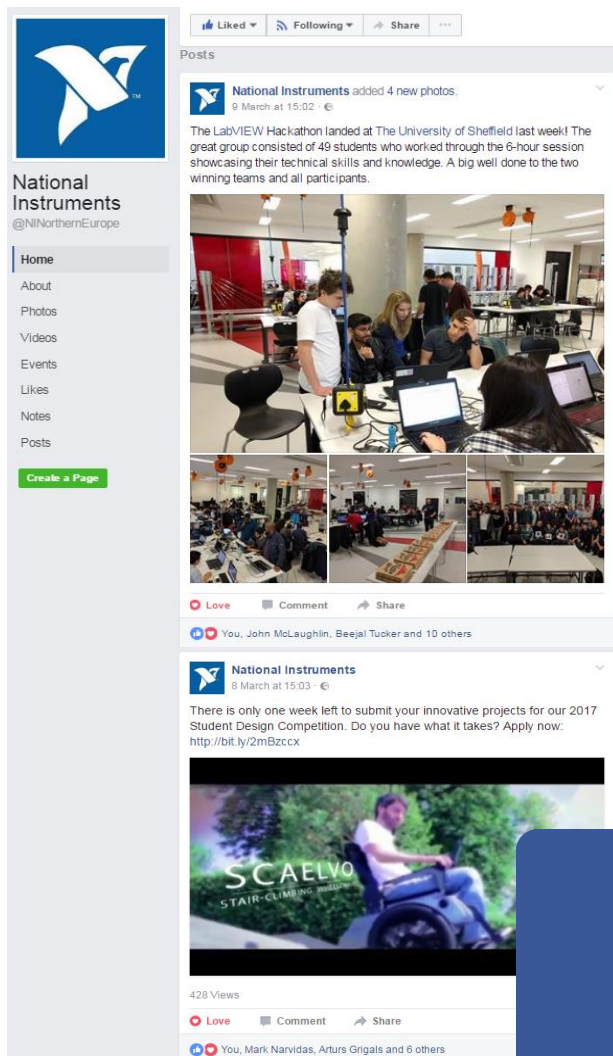
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**National Instruments** added 4 new photos.  
9 March at 15:02 · €

The LabVIEW Hackathon landed at The University of Sheffield last week! The great group consisted of 49 students who worked through the 6-hour session showcasing their technical skills and knowledge. A big well done to the two winning teams and all participants.

**National Instruments**  
9 March at 15:03 · €

There is only one week left to submit your innovative projects for our 2017 Student Design Competition. Do you have what it takes? Apply now: <http://bit.ly/2mBzccx>

SCAELVO  
STAIR-CLIMBING ROBOT

428 Views

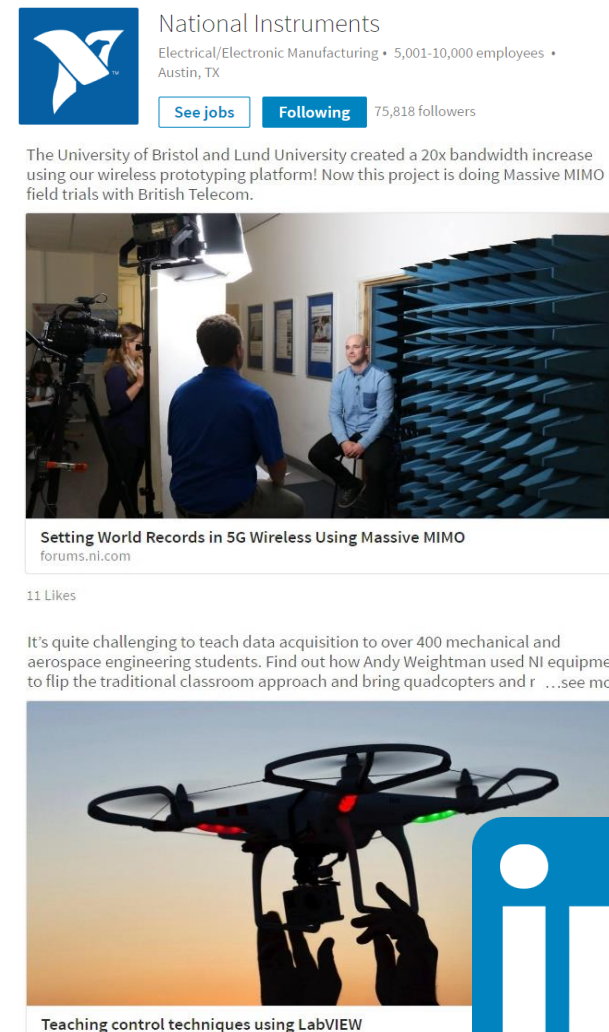



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TWEETS 3,914 FOLLOWING 2,915 FOLLOWERS 18.7K LIKES 5,514

**National Instruments** @Niglobal · 29 Dec 2016  
Robot making has never been so fun!  
@Engimake is using #LabVIEW to make robotics interactive with the QuadBOT:  
[bit.ly/2ijoJhn](http://bit.ly/2ijoJhn)

**National Instruments** @Niglobal · Feb 10  
Who spotted the @labview cameo in last night's @bigbangtheory?

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The University of Bristol and Lund University created a 20x bandwidth increase using our wireless prototyping platform! Now this project is doing Massive MIMO field trials with British Telecom.


**Setting World Records in 5G Wireless Using Massive MIMO**  
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11 Likes

It's quite challenging to teach data acquisition to over 400 mechanical and aerospace engineering students. Find out how Andy Weightman used NI equipment to flip the traditional classroom approach and bring quadcopters and r ...see more


**Teaching control techniques using LabVIEW**





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How do you provide 16 channels of digital I/O and a 100 MS/s scope to students? Use the Analog Discovery 2.  
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**Student**


From music visualisation to multiplayer gaming. Add simple, fun visuals to your embedded projects!  
[Build your own](#)



**LabVIEW Provides Unprecedented Insight into Human Development**

Born in Bradford, one of the largest research studies ever undertaken, is assessing how human health and wellbeing is influenced by our environment, genes & lifestyle. To aid this study, the University of Leeds developed a LabVIEW-based research tool, which is now tracking the motor-cognitive development of 13,500 children, all the way from birth into adulthood.  
[Learn more about this ambitious study](#)

**What's New?**


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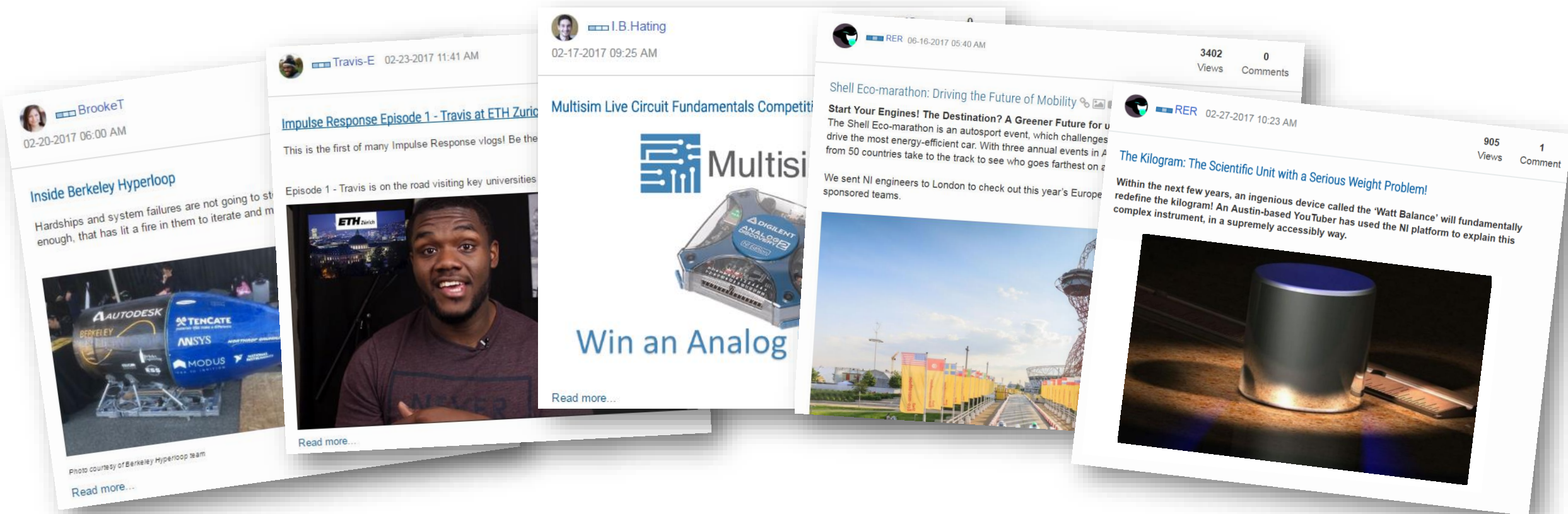
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- ☒ NI LabWindows/CVI Developer Newsletter (quarterly, English)
- ☒ Circuit Design Newsletter (quarterly, English)
- ☒ Instrumentation Newsletter (quarterly, electronic version of 20+ page newsletter, English)
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LabVIEW Maker Hub  
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## Project Resources & Guides



## Technical Support & Consultancy

Alliance Partner Network  
[ni.com/alliance](https://ni.com/alliance)

Access and Manage Your Support  
[ni.com/support](https://ni.com/support)



## Learning & Certification Resources

NI Proficiency Badge Program  
[ni.com/badging](https://ni.com/badging)

Self-Paced Video Training for Students  
[ni.com/academic/students/learn/](https://ni.com/academic/students/learn/)

Self-Paced Online Training  
[ni.com/self-paced-training](https://ni.com/self-paced-training)

RF Academy  
[ni.com/rf-academy](https://ni.com/rf-academy)

Impulse Response - Academic News Blog  
[forums.ni.com/t5/Impulse-Response/bg-p/4029](https://forums.ni.com/t5/Impulse-Response/bg-p/4029)

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Research Roundtables  
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## Recognition & Exposure

NI Engineering Impact Awards  
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