

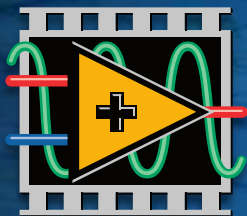


NIDays

WORLDWIDE GRAPHICAL SYSTEM DESIGN
CONFERENCE

Joris Donders

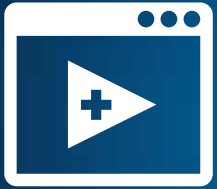
Area Sales Manager, NI



NATIONAL INSTRUMENTS

LabVIEW™ 2013

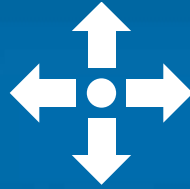
LabVIEW 2013 – New Features



Code
Management



Software
Engineering



Deployment
Experience



Mobile
and Web



Overhauled
Resources



LabVIEW 2013 – New Features



Idea Exchange Features

- ✓ Bookmarks
- ✓ Attached Comments
- ✓ Mouse Wheel Support for Controls & Indicators
- ✓ High Priority User Events
- ✓ Installers Automatically Include Necessary Drivers & Runtimes
- ✓ Open Accessor VI for LVOOP
- ✓ Desktop Execution Trace Toolkit Updates (many)
- ✓ Unit Test Framework Updates (many)

LabVIEW 2013 – New Features

New Features Demonstrations





175+ Products

LabVIEW
TOOLS NETWORK

LEAP
MOTION



NATIONAL INSTRUMENTS

LabVIEW™ 2013



LabVIEW Add-Ons of the Year

INNOVATION

Deploy



DATA ACQUISITION

Chameleon



EMBEDDED CONTROL AND MONITORING

Raima Database
for LabVIEW



AUTOMATED TEST

Tool Qualification Kit

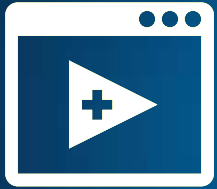


COMMUNITY

TortoiseSVN Plugin



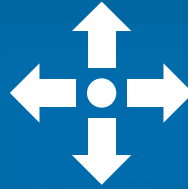
LabVIEW 2013 – New Features



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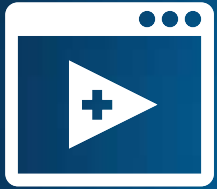


Mobile
and Web

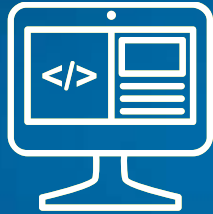


Overhauled
Resources

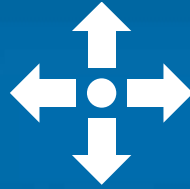
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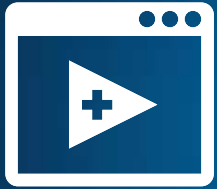


COMMUNITY

TortoiseSVN Plugin



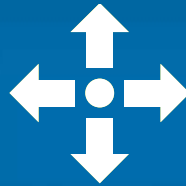
LabVIEW 2013 – New Features



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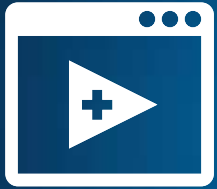


INNOVATION

Deploy



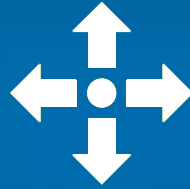
LabVIEW 2013 – New Features



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Overhauled
Resources

Data Dashboard for LabVIEW 2.2



Data Dashboard for LabVIEW 2.2



Joeri Wingelinckx

Services Manager, NI

Services and Support Throughout Life Cycle

1. Innovate with Confidence
2. Reduce Development Time
3. Reduce Long-Term Maintenance Costs



- LabVIEW Core 1
- LabVIEW Core 2
- LabVIEW Core 3
- Advanced Architectures in LabVIEW
- Object Oriented Design and Programming in LabVIEW
- LabVIEW FPGA
- LabVIEW Real-Time 1 & 2

LabVIEW Proficiency

Certified LabVIEW Developers in Belgium

Christophe Balthasart, WOW Technology SA

Tom Coen, INDUCT BVBA

Dries Crauwels, Voltspot

Jorn Deruyck, Cenat

Dirk Nuyts, VITO

Stijn Schacht, CENAT

Kristof Verloigne, NiniX Technologies

Jan Wijman, VI Technologies

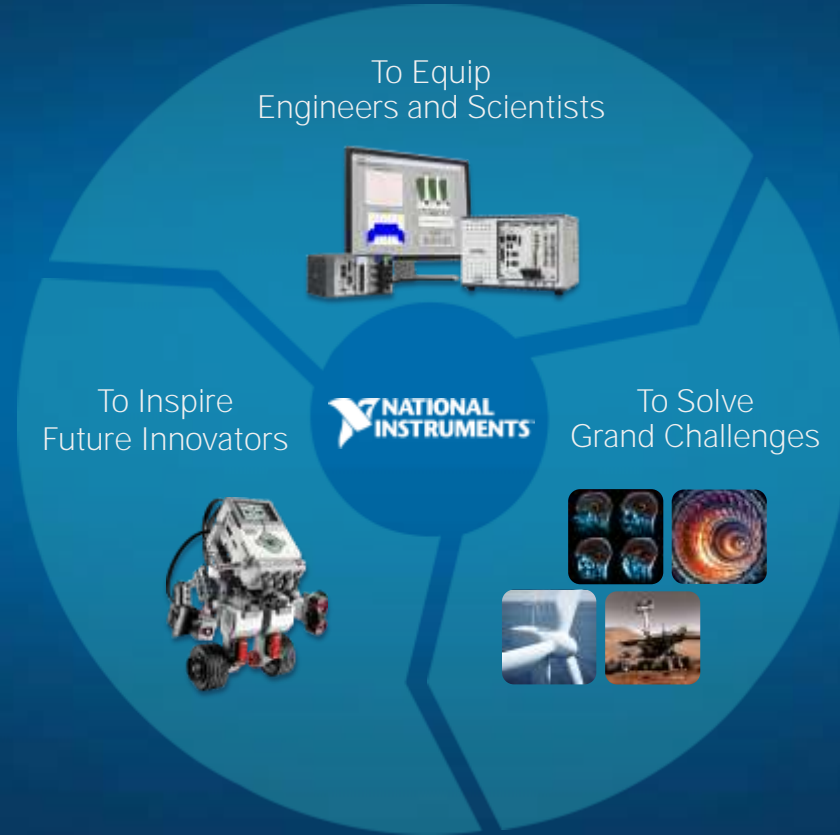
CLA Summit 2014 @CERN



Margaret Barrett

Academic Product Manager, NI

Create Shared Value for Sustainable Success



“Engineers explain what it takes to
get a job at Elon Musk’s SpaceX:
for Launch Engineering ... awesome LabVIEW +
great algorithm and data structure knowledge.”

–Business Insider

Proficient in G programming!

...minimum certification of CLD required...

...LabVIEW developers needed.

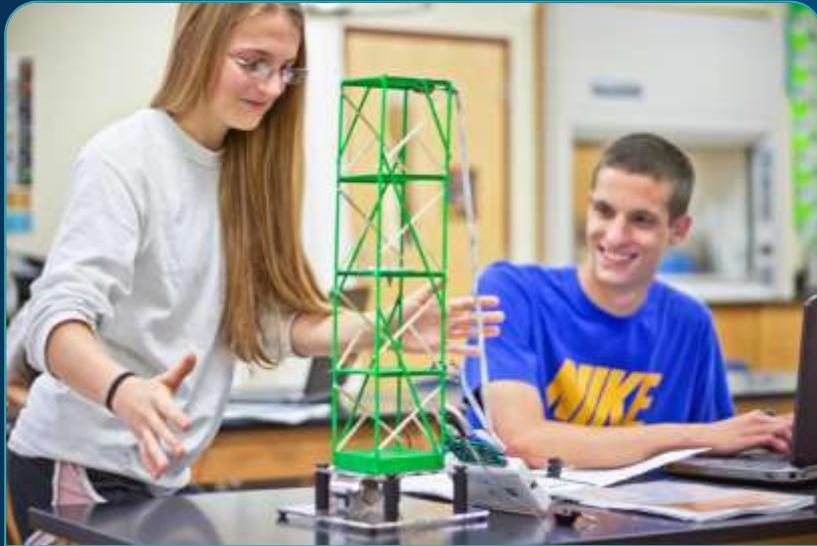
LabVIEW FPGA programming experience...

...test engineer with LabVIEW experience.

...must know LabVIEW!

LEGO MINDSTORMS





Students learn about the effects of earthquakes



Researchers measure the effects of earthquakes

The Tools to “Do Engineering”



2004

NI ELVIS:
Lab Instrumentation



2010

NI myDAQ:
Student
Instrumentation



2011

NI USRP™:
RF/SDR

Design Real Systems, Fast



Student
Design



Embedded
Systems



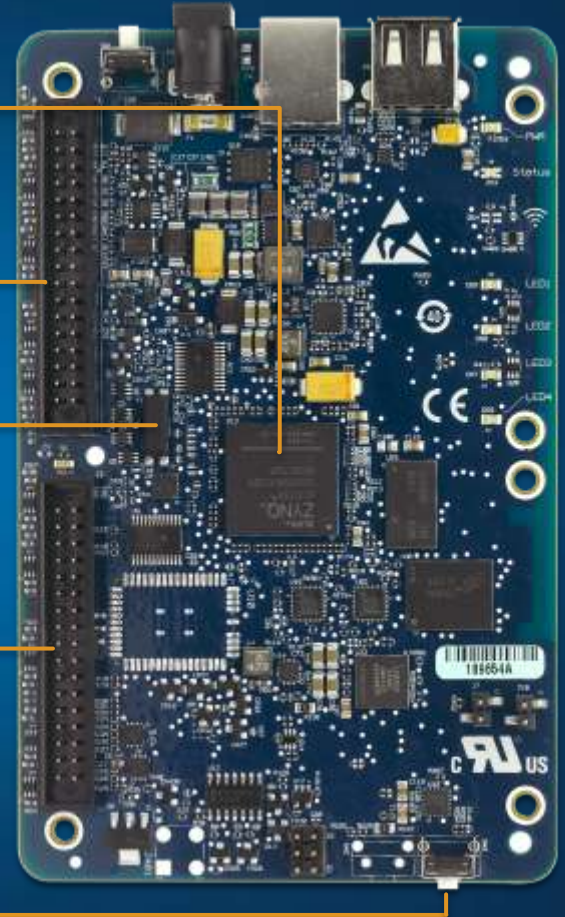
Control, Robotics, and
Mechatronics

Xilinx Zynq SoC (Artix-7 FPGA
and dual-core ARM Cortex-A9)

Onboard 3-axis
accelerometer

Two 34-pin headers

User-defined button





Integrated WiFi

40 lines of digital I/O
(SPI, I²C, UART,
PWM, encoder)

Stereo audio I/O







Student
Design

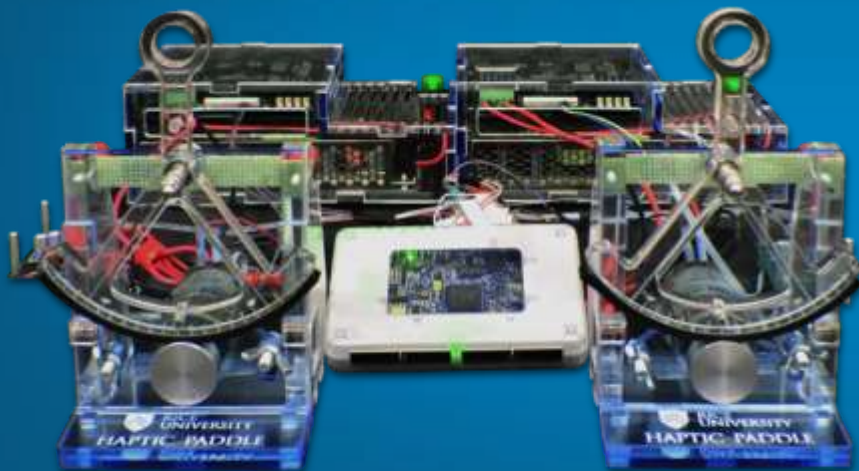


Embedded
Systems



Control, Robotics, and
Mechatronics

Teleoperated Haptic Paddles



Rice



Control, Robotics, and
Mechatronics

KUKA youBot Robotics Platform



Graphical System Design



Measurement



Test



Monitoring



Embedded



Control



Desktops and
Laptops



NI CompactDAQ



PXI and Modular
Instruments



NI CompactRIO



The background of the image is a complex, abstract composition. On the left side, there is a curved, tunnel-like structure with a metallic, reflective surface. This structure is illuminated with a vibrant rainbow gradient, transitioning from yellow at the top to green and then blue towards the bottom. The right side of the image is a solid, deep blue gradient. Overlaid on this blue background is the text 'NIDays' in a large, white, sans-serif font. Below 'NIDays' is the text 'WORLDWIDE GRAPHICAL SYSTEM DESIGN' in a smaller, white, sans-serif font. At the bottom is the word 'CONFERENCE' in a large, white, sans-serif font, matching the size of 'NIDays'.

NIDays

WORLDWIDE GRAPHICAL SYSTEM DESIGN

CONFERENCE