

The background features a perspective view of a tunnel or a series of curved, overlapping planes. The left side is illuminated with a warm, orange and yellow glow, while the right side transitions into a deep blue gradient. Faint, technical-looking lines and shapes are visible on the curved surfaces, suggesting a design or engineering theme.

NIDays

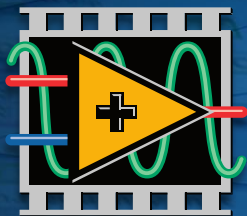
WORLDWIDE GRAPHICAL SYSTEM DESIGN
CONFERENCE

Johan Hillergren

Marketing Engineer, NI

Erik van Hilten

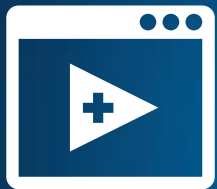
Marketing Engineer, NI



NATIONAL INSTRUMENTS

LabVIEW™ 2013

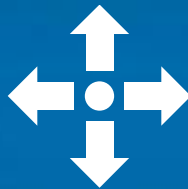
LabVIEW 2013 – New Features



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

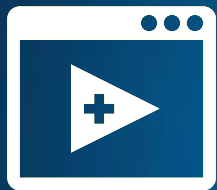


COMMUNITY

TortoiseSVN Plugin



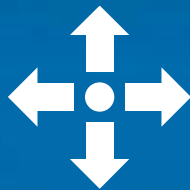
LabVIEW 2013 – New Features



Code
Management



Software
Engineering



Deployment
Experience

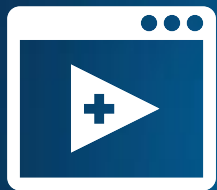


Mobile
and Web

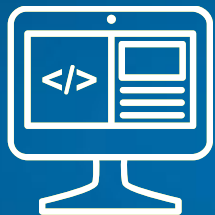


Overhauled
Resources

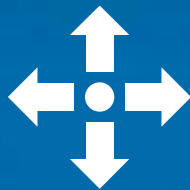
LabVIEW 2013 – New Features



Code
Management



Software
Engineering



Deployment
Experience



Mobile
and Web



Overhauled
Resources

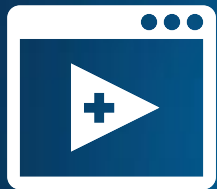


COMMUNITY

TortoiseSVN Plugin



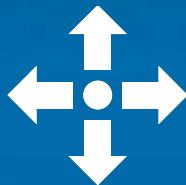
LabVIEW 2013 – New Features



Code
Management



Software
Engineering



Deployment
Experience

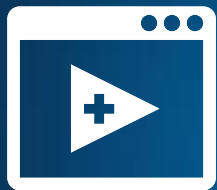


Mobile
and Web



Overhauled
Resources

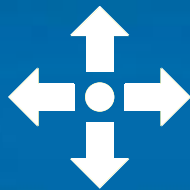
LabVIEW 2013 – New Features



Code
Management



Software
Engineering



Deployment
Experience



Mobile
and Web



Overhauled
Resources

Data Dashboard for LabVIEW 2.2



Data Dashboard for LabVIEW 2.2

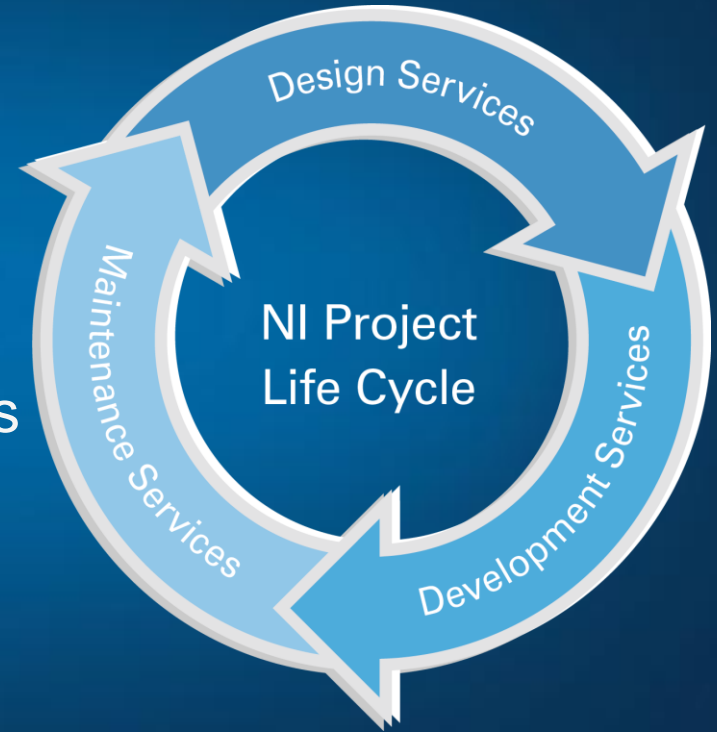


Joeri Wingelinckx

Services Manager, NI

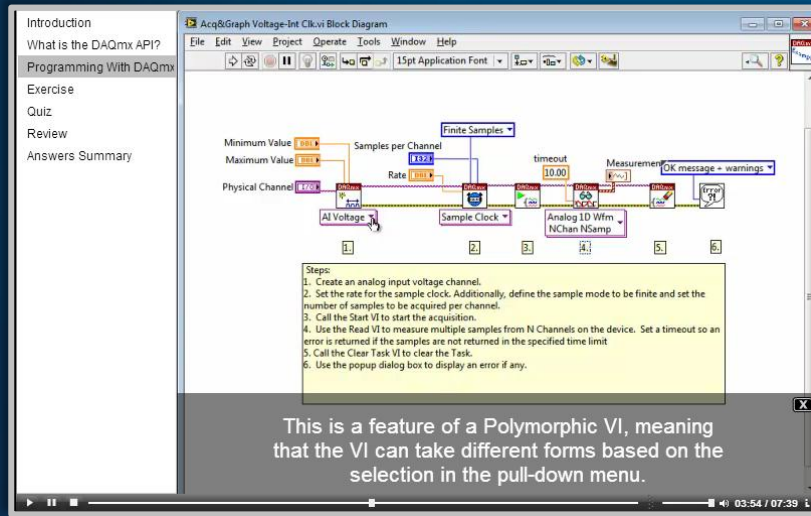
Services and Support Throughout Life Cycle

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



Expanded LabVIEW Online Training

Core LabVIEW skills included with your software purchase



The screenshot shows a LabVIEW training video player. The main window displays a block diagram titled "Acq8iGraph Voltage-Int Cbk.vi Block Diagram". The diagram includes controls for "Minimum Value", "Maximum Value", "Physical Channel", "Samples per Channel", "Rate", "Finite Samples", "Sample Clock", "Analog I/O Wfm", "NChan NSamp", "timeout", and "Measurement". A yellow box at the bottom of the diagram contains a list of steps:

1. Create an analog input voltage channel.
2. Set the rate for the sample clock. Additionally, define the sample mode to be finite and set the number of samples to be acquired per channel.
3. Call the Start VI to start the acquisition.
4. Use the Read VI to measure multiple samples from N Channels on the device. Set a timeout so an error is returned if the samples are not returned in the specified time limit.
5. Call the Clear Task VI to clear the Task.
6. Use the popup dialog box to display an error if any.

Below the steps, a text box states: "This is a feature of a Polymorphic VI, meaning that the VI can take different forms based on the selection in the pull-down menu."

LabVIEW Online Training

- 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



The Bath University Rugby Scrum machine represented our team's first real use of LabVIEW integrated with NI hardware, so we opted to attend formal training courses provided by National instruments (LabVIEW Core 1, Core 2, Real-Time and FPGA), and achieved the subsequent certifications. These practical, instructor-led courses played a key role in ensuring the success of the project, by dramatically accelerating our proficiency with NI tools.

Dario Cazzola

University of Bath, Department for Health, Applied Biomechanics Suite

LabVIEW Proficiency

Certified LabVIEW Developers in Sweden

Magnus Andersson, WireFlow AB

Mats Backlund, AddQ Consulting AB

Alfred Bayati, itmed

Michael Berggren, Cybercom Sweden West AB

Stefan Davidsson, DVel AB

Fredrik Edling, CAG Senseus AB

Staffan Ekstrom, Sigma Connectivity AB

Terje Engelbertsen, AddQ Consulting AB

Per Finnstam, Prevas AB

Per Guldstrand, Prevas AB

Michael Gunnarsson, HITest AB

Martin Heden, EIS by Semcon AB

Per Hedlund, DVel AB

Jaakko Kerola, Novator Solutions AB

Mattias Lindh, XDIN

Andreas Lindquist, Xdin AB

Jonas Mellroth, WireFlow AB

David Olevik, Damill AB

Thomas Olsson, AddQ Consulting AB

Claes Paulsson, HITest AB

Rickard Persater, Novator Solutions AB

Jonas Sandborgh, Midroc Electro AB

Christian Schaub, CAG Senseus AB

Johan Slattman, Prevas AB

Marcus Stavstrom, Prevas AB

Niklas Stromberg, RealTest AB

Leif Suonvieri, Midroc Automation

Anders Svensson, Novator Solutions AB

Marcus Torndahl, Prevas AB

LabVIEW Proficiency

Certified LabVIEW Architects in Sweden

Andreas Beckman, AddQ Consulting AB

Sebastian Bengtsson, Prevas AB

Mattias Ericsson, AddQ Consulting AB

Marcus Johnson, Symbio Sweden AB

Glenn Karlsson, Symbio Sweden AB

Magnus Lilliehook, Generate IT i Goteborg AB

Carl Ljungholm, Prevas AB

Stefan Mattsson, WireFlow AB

Martin Peeker, Dvel AB

Martin Sveningsson, Prevas AB

Imran Yousaf, Prevas AB

2014 Certified LabVIEW Architect Summit



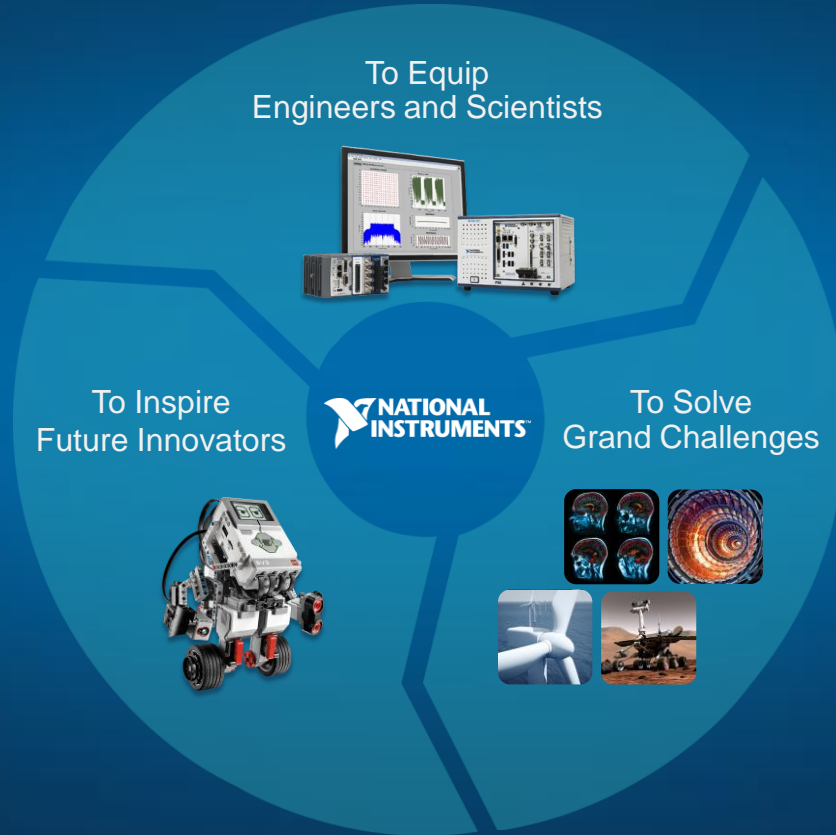
CERN 
Geneva, Switzerland
March 18th-20th



David Baker

Academic Program Manager, NI

Create Shared Value for Sustainable Success



Proficient in G programming!

...minimum certification of CLD required...

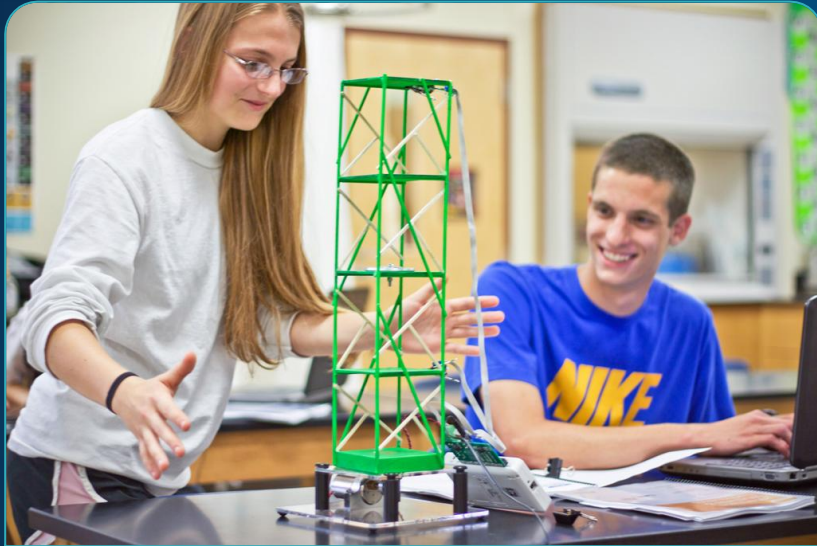
“Engineers explain what it takes to
get a job at Elon Musk's SpaceX.
...LabVIEW developers needed.

for Launch Engineering, awesome LabVIEW +
great algorithm and data structure knowledge.”
LabVIEW FPGA programming experience.

...test engineer with LabVIEW experience.

—Business Insider

...must know LabVIEW!



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



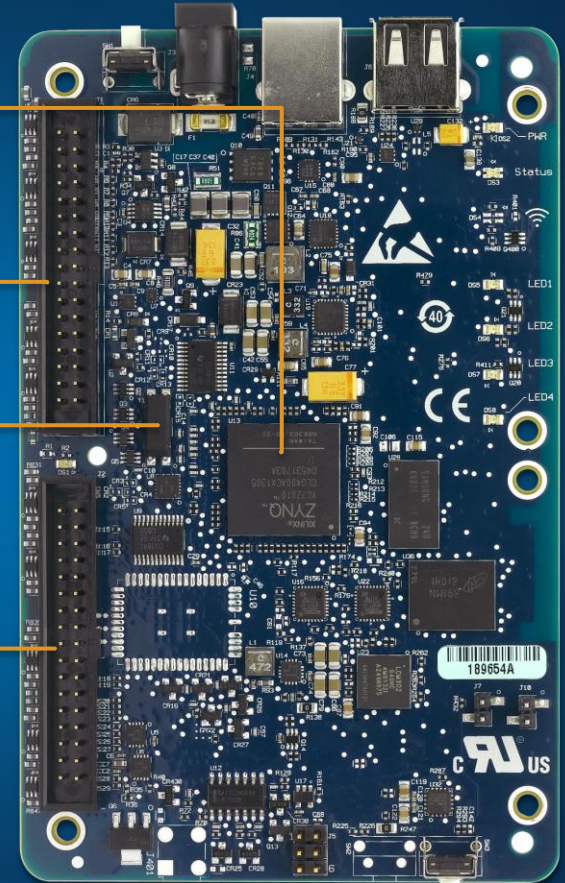
Control, Robotics, and
Mechatronics

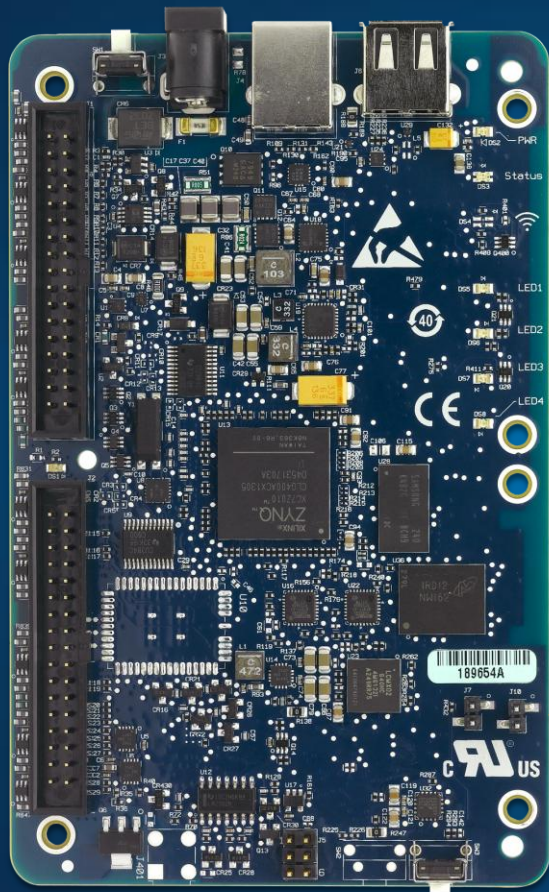
Xilinx Zynq SoC (Artix-7 FPGA
and dual-core ARM Cortex-A9)

Onboard 3-axis
accelerometer

Two 34-pin headers

User-defined button

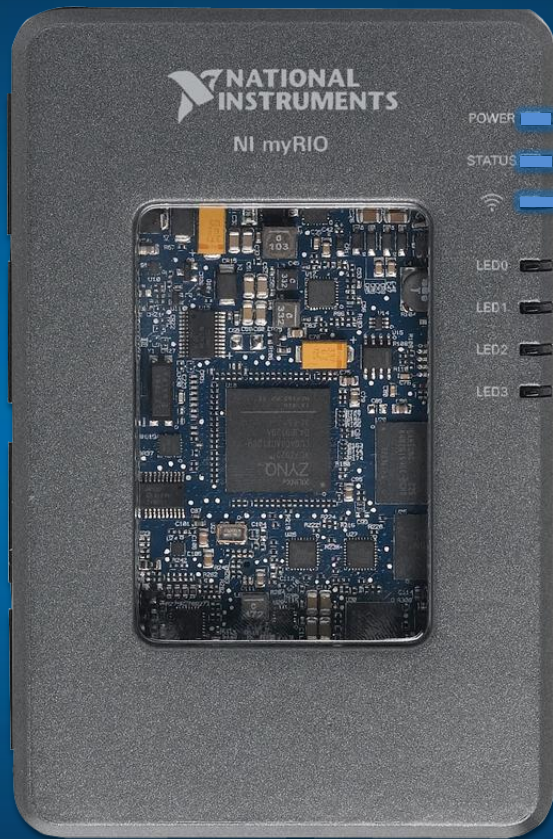




Integrated WiFi

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

Stereo audio I/O





NATIONAL
INSTRUMENTS
NI myRIO

POWER

STATUS



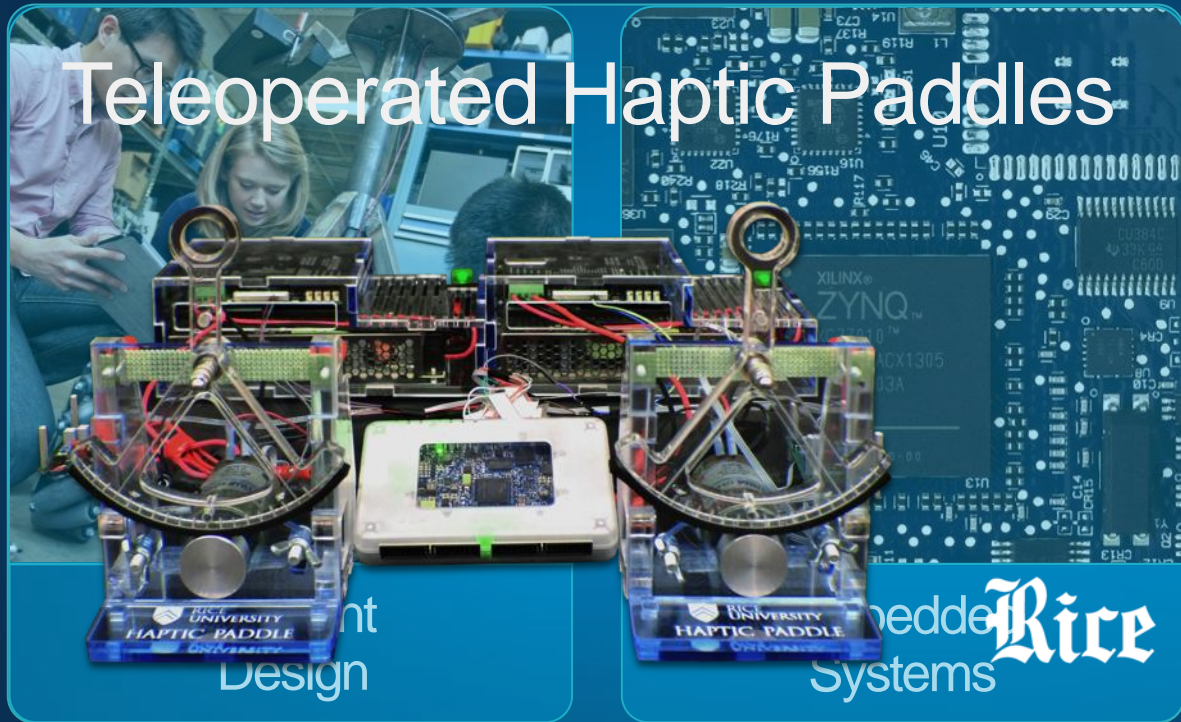
LED0

LED1

LED2

LED3


Teleoperated Haptic Paddles



Control, Robotics, and
Mechatronics

KUKA youBot Robotics Platform





NIDays

WORLDWIDE GRAPHICAL SYSTEM DESIGN
CONFERENCE