



NIDays





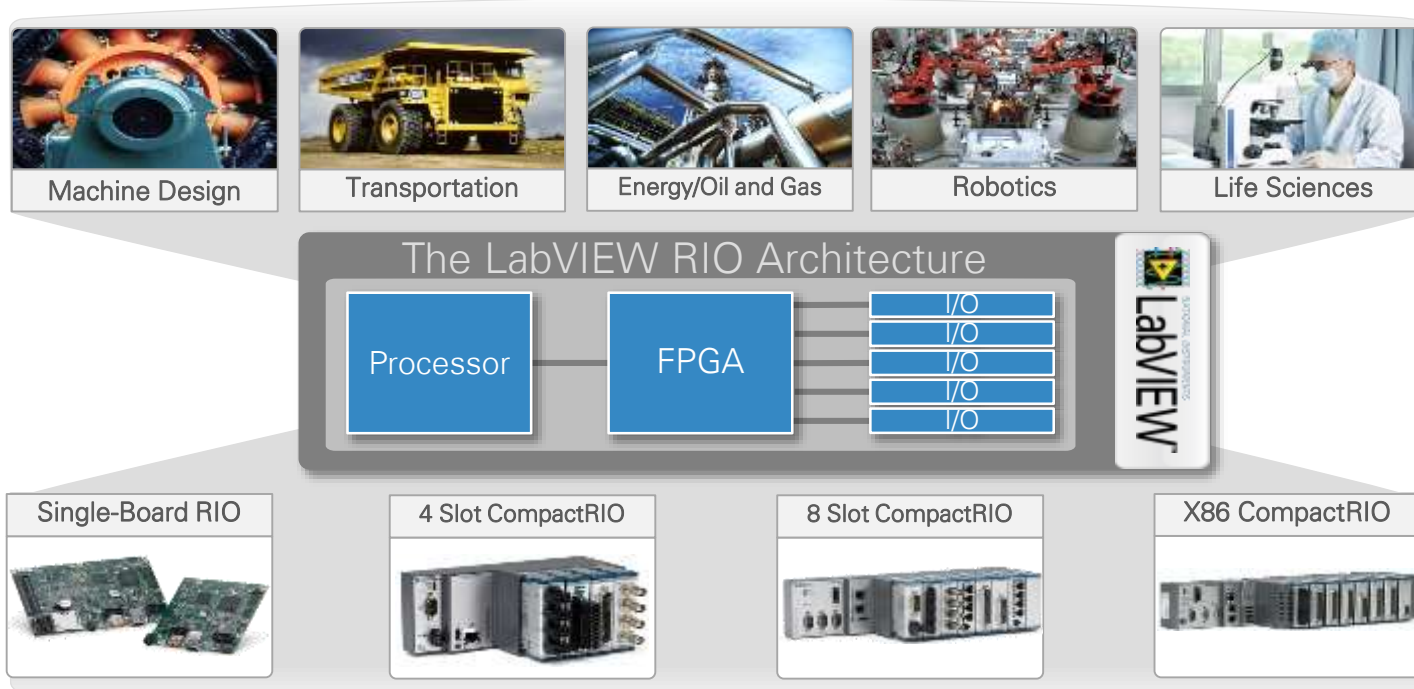
Developing Monitoring and Control Systems with LabVIEW and CompactRIO

Carlos Pazos

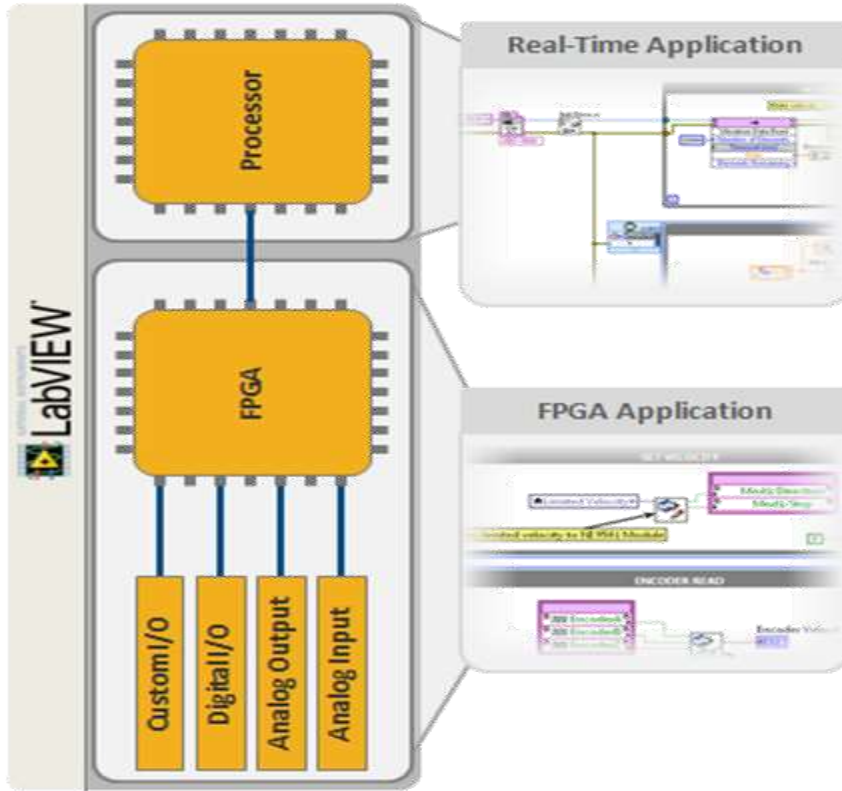
Embedded Software Product Marketing Manager

Graphical System Design

A platform-based approach for measurement and control



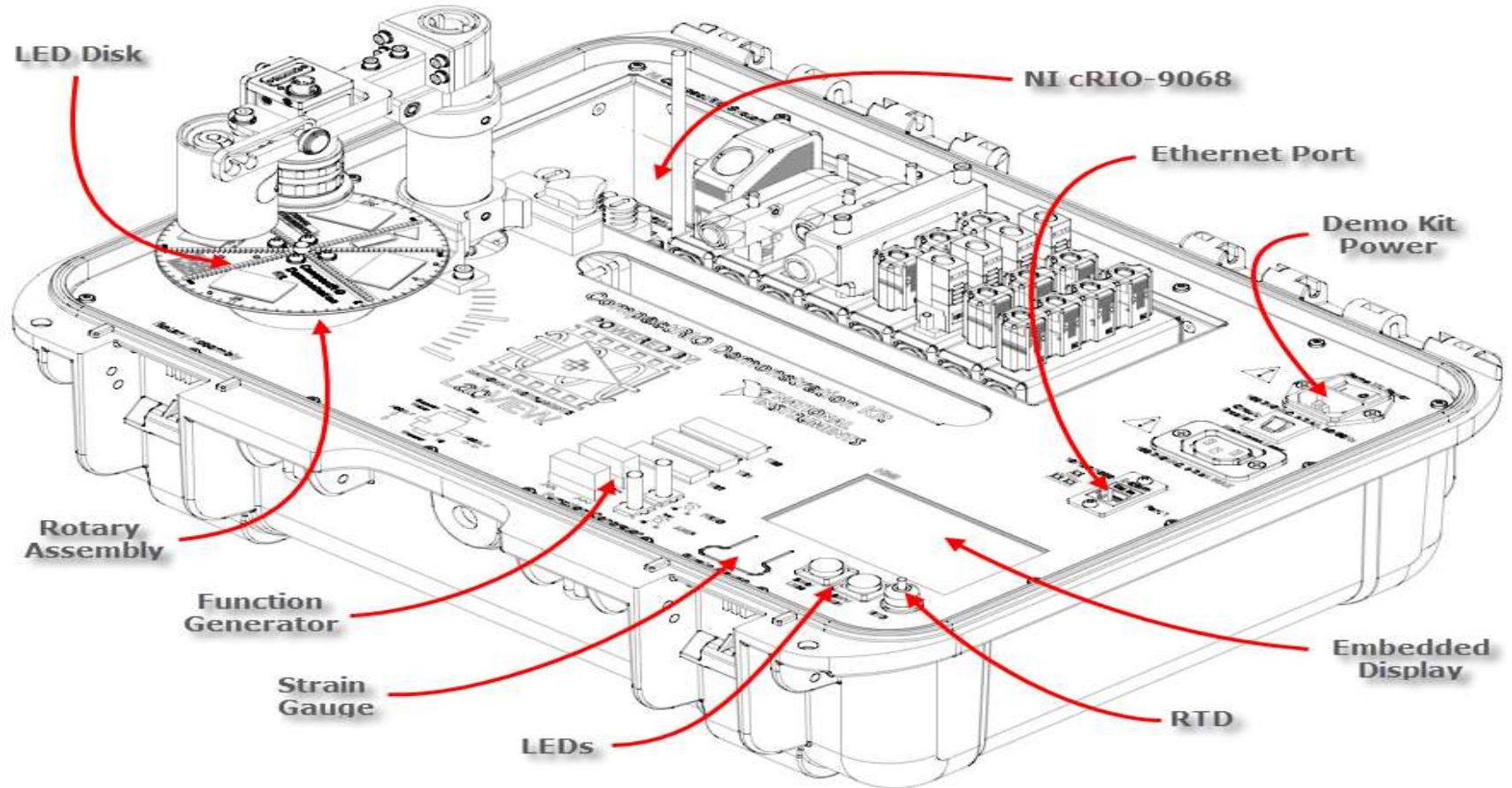
The LabVIEW RIO Architecture



- Real-time OS
- Application software
- Networking and peripheral I/O drives
- DMA, interrupt, and bus control drivers

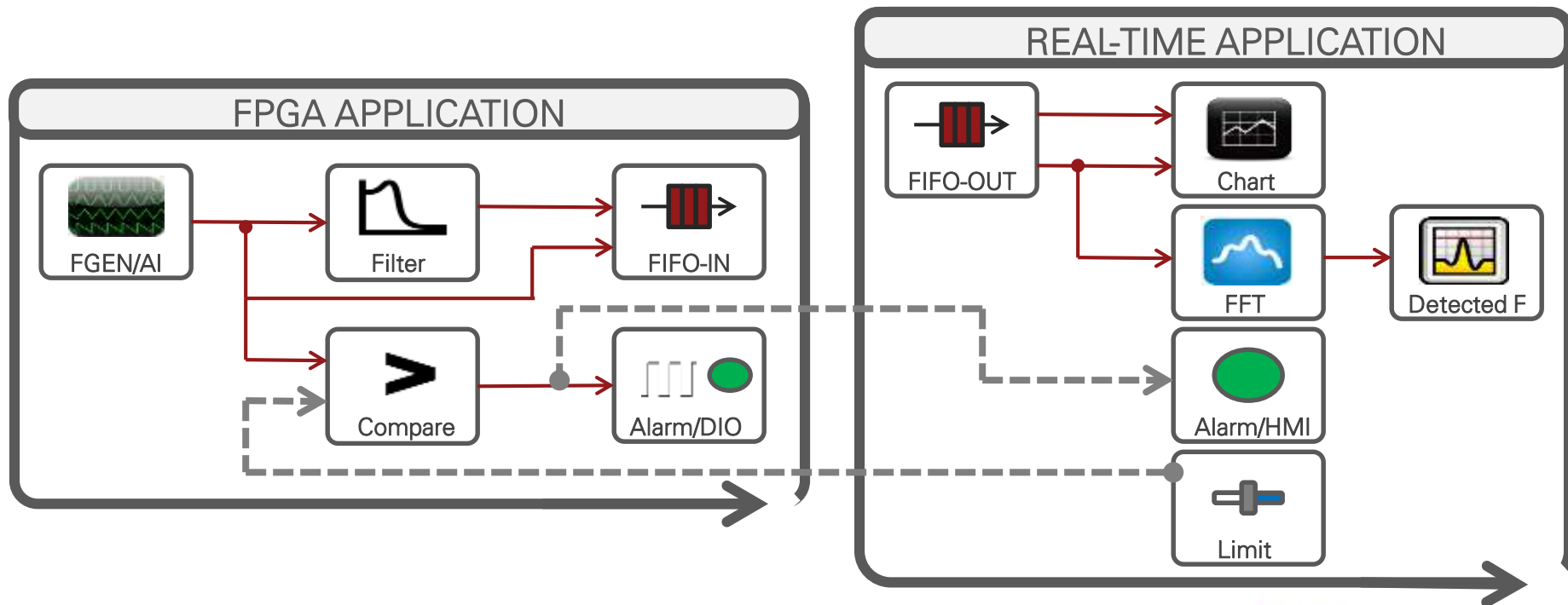
- Application IP
- Control IP
- DSP IP
- Specialized I/O drivers and interface
- DMA controller

CompactRIO Demonstration Kit



Exercise 2A

FPGA-Based Butterworth Filter



CompactRIO Developer's Guide

NI LabVIEW for CompactRIO Developer's Guide

Recommended LabVIEW Architectures and Development Practices
for Control and Monitoring Applications

ni.com/compactriodevguide

LabVIEW RIO Evaluation Kit

90-day LabVIEW, LabVIEW FPGA, and LabVIEW Real-Time evaluation



Step-by-step tutorials
and configuration
wizard

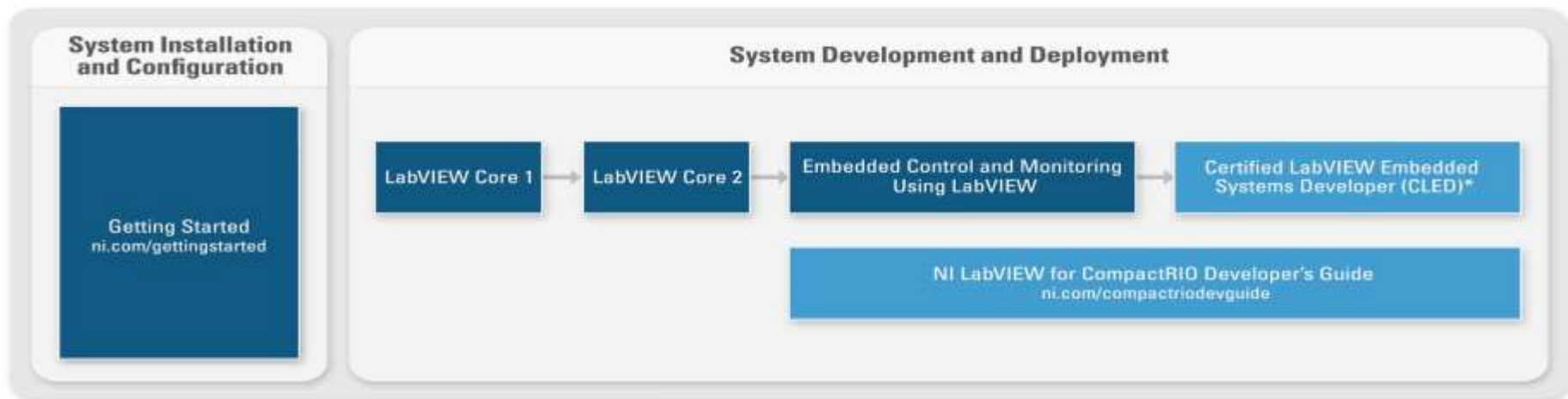
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Training and Certification



* A CLD or higher is required before attempting the CLED exam

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