



## PROFILE OF MARC DUBOIS, PH.D.

- ◆ Ph.D in Engineering Physics
- ◆ Founded HaroTek LLC in November 2014.
- ◆ Certified LabVIEW Architect (CLA), Professional Instructor (CPI) and TestStand Developer (CTD).
- ◆ Developed Haro3D™, a 3D Visualization library offered on National Instruments' LabVIEW Tool Network (<http://sine.ni.com/nips/cds/view/p/lang/en/nid/213510>)
- ◆ Developed HaroUT™, an application to calculate delays for ultrasonic phased arrays, available on the LabVIEW Tool Network (<http://sine.ni.com/nips/cds/view/p/lang/en/nid/213669>).
- ◆ Experienced with customers for requirement capture and tracking; acceptance tests, documentation, training, and product support.
- ◆ Authored over 40 technical papers and inventor on over 30 patents.
- ◆ Located in the Dallas - Fort Worth, TX area.
- ◆ US Citizen.

## PREVIOUS PROFESSIONAL EXPERIENCE

**iPHOTON SOLUTIONS (www.iphoton.com), Fort Worth, TX** **2008-2014**

**President – Co-founder**

Developed, built, marketed and delivered million-dollar industrial optical systems (iPLUS™) for laser-ultrasound inspection of composites for the aeronautic industry.

- ◆ Delivered two systems, to Airbus in France and to Airbus/EADS/Tecnomat in Spain.
- ◆ Architected all real-time software, user interface, and signal processing for real-time PXI and 3D vision systems using LabVIEW and C++.

**LOCKHEED MARTIN AERONAUTICS, Fort Worth, TX** **2005-2008**

**Senior Physicist**

Led advancements of laser-ultrasound technology for commercialization.

- ◆ Technology developments resulted in doubled productivity and improved reliability to up-times better than 95%. These figures provide forecasted savings of over \$300 million for composite inspection over the F-22 and F-35 programs.
- ◆ Developed and applied tests using NI LabVIEW to improve reliability of optical components.

**GENERAL ELECTRIC RESEARCH, Niskayuna, NY** **1998-2005**

**Project manager / NDT Physicist**

Managed research of \$million/year and wrote research proposals, publications, and patents.

- ◆ Developed systems for laser-ultrasound and optical data storage using NI Labview and C++.

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## EDUCATION

**Ph.D., Engineering Physics, *University of Montreal, Canada***  
(Thesis: Generation of ultrasonic waves by laser in composites)

**M.S., Metallurgy, *Laval University, Quebec, Canada***  
(Thesis: Characterization of steel surface treatments using magnetic noise)

**B.S., Physics, *Laval University, Quebec, Canada***

## TECHNICAL SKILLS

- ◆ Certified LabVIEW Architect
- ◆ Certified Professional Instructor
- ◆ Certified TestStand Developer
- ◆ C++
- ◆ 3D Vision
- ◆ Real-Time PXI
- ◆ Data acquisition
- ◆ Software engineering
- ◆ Optics

## ACCOMPLISHMENTS

Over 40 technical publications and 30 granted patents

iPLUS™ system won the JEC 2012 Innovation Awards in the aeronautic category

Aviation Week identifies iPLUS™ as one of the top technologies to watch (May 2012)

Chair of laser-ultrasonic session at annual Quantitative Non-Destructive Evaluation (QNDE) conference  
2002-2007

## LANGUAGES

Fluent in English and French.