



PROFILE OF MARC DUBOIS, PH.D.

- ◆ Ph.D in Engineering Physics
- ◆ Founded HaroTek LLC, a LabVIEW consulting firm, in November 2014.
- ◆ HaroTek's youtube channel: goo.gl/IPzwGH.
- ◆ National Instruments certifications as LabVIEW Architect (goo.gl/5UHS8A), Professional Instructor (goo.gl/NhD91M) and TestStand Developer (goo.gl/hPzFDq).
- ◆ Developed Haro3D™, a 3D Visualization library offered on National Instruments' LabVIEW Tool Network (goo.gl/qVIJ8v).
- ◆ Haro3D includes a LabVIEW API for the Microsoft Hololens that uses the Haro3D app offered on the Microsoft store (goo.gl/PkArrT).
- ◆ Developed HaroUT™, a LabVIEW library for ultrasonic phased arrays, offered on the National Instruments' LabVIEW Tools Network (goo.gl/vhVGHi).
- ◆ Experienced with customers for requirement capture and tracking; acceptance tests, documentation (goo.gl/3LsyiF), 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 (youtube: goo.gl/xkzt0m) , 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

- ◆ LabVIEW Architect (goo.gl/5UHS8A)
- ◆ NI Instructor (goo.gl/NhD91M)
- ◆ TestStand Developer (goo.gl/hPzFDq)
- ◆ C++ / C#
- ◆ 3D Vision
- ◆ Real-Time PXI
- ◆ Data acquisition
- ◆ Software engineering
- ◆ Optics

ACCOMPLISHMENTS

Over 40 technical publications and 30 granted patents

Haro3D Library 2016 Finalist for Product of the Year – Platform Connectivity
LabVIEW Tools Network

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.