



BETA CAE Systems USA, Inc.
Pioneering engineering software systems, support & services

BETA CAE Systems announces a strategic alliance with WSU-NIAR Virtual Engineering Lab



NATIONAL INSTITUTE FOR AVIATION RESEARCH

Farmington Hills, MI – BETA CAE Systems announces a strategic partnership with the Virtual Engineering Lab at Wichita State University’s National Institute for Aviation Research (NIAR).



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The Virtual Engineering Lab, led by director Dr. Gerardo Olivares, specializes in computational mechanics, crash dynamics and virtual flight. Olivares is a recognized thought leader in aerospace crashworthiness.

With the assistance of BETA’s talented Crashworthiness and Safety Team, NIAR students were trained on and implemented BETA CAE’s ANSA product, an advanced multidisciplinary CAE pre-processing tool that provides all the necessary functionality for full-model build-up, from CAD data to ready-to-run solver input file, in a single integrated environment. BETA awarded the team with a plaque, commemorating the strategic alliance. BETA CAE Systems is honored to be collaborating with NIAR’s Virtual Engineering Laboratory.

“We believe in Dr. Olivares’ vision to replace physical testing with virtual testing for faster, more accurate results,” said BETA CAE technical director, John Skarakis.

Olivares was the Keynote Speaker at BETA CAE’s 2018 Annual Users Meeting, where engineers and scientists from around the world come together every year in Plymouth, MI.

During the keynote address, Olivares explained that “virtual Engineering is defined as integrating geometric models and related engineering tools such as analysis, simulation, optimization and decision-making tools within a computer-generated environment that facilitates multidisciplinary collaborative product development.”

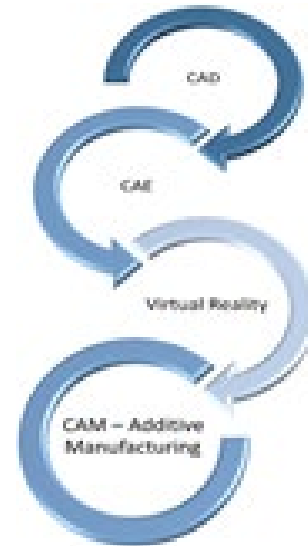
Advantages of virtual engineering include:



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- Minimize Physical Testing
- Minimize Physical Product Revisions
- Reduced Development Cycles
- Reduced Certification Cycles
- Improved Assembly and Manufacturing Cycles
- Accomplish Results with a Less Experienced Work Force
- Robust Design
- Improved Product Knowledge
- Innovation



About NIAR

NIAR was established in 1985 to conduct research, transfer technology and enhance education for advancing the nation's aviation industry, and to assist non-aviation industries that may benefit from aviation-related technologies. NIAR employs more than 400 research scientists, engineers, technicians and administration, including 200 student technicians. NIAR provides research, design and certification testing for the aerospace and manufacturing industries and federal agencies. Clients include Airbus, Boeing, Bombardier Aerospace, Textron Aviation, Spirit Aerosystems, the Federal Aviation Administration and Department of Defense.

NIAR Laboratories include Additive Manufacturing, Advanced Coatings, Aging Aircraft/Sustainability, Ballistic/Impact Dynamics, CAD/CAM, Composites/Advanced Materials, Crash Dynamics, Engineering Design/Modification, Environmental Test, Full-Scale Structural Test, Mechanical Test, NDT, Oil Analysis, Research Manufacturing, Reverse Engineering, Robotics/Automation, Virtual Engineering/Flight, Virtual Reality and the Walter H. Beech Wind Tunnel. www.niar.wichita.edu



DR. GERARDO OLIVARES - NIAR RECEIVING AWARD FROM JOHN SKARAKIS TECHNICAL DIRECTOR - BETA CAE SYSTEMS



Research Areas NIAR VE Laboratory

Virtual Engineering Group

