

# Successfully Completed Dynamic Simulation & Modeling Training, Bangkok

 **20-sim**  
Asia Pacific training

Your present circumstances don't determine where you can go; they merely determine your starting place. The purpose of learning is to focus your attention on your future. Magical things will begin when you learn. Your power to accomplish becomes a reality when you learn newest things. The learning and training program of '20-sim' was directed towards this maxim. Following this theory, this program was set to impart the understanding of Real Time applications of Dynamic Modeling, Simulation, Mechatronics, and Control Systems using the most comprehensive software tool 20-sim widely used by engineers to pursue their designs and analysis goals.

20-Sim workshop offered in-depth technical training on Dynamic Modeling & Simulation, providing with practical "how-to" tutorials and labs. The workshop also comprised of hands-on experience using the newest 20-Sim tool and compatible ARM development board. Complete focus of the program was on mechatronics and precision engineering imparting complete understanding of modeling and simulation with 20-sim. In close cooperation with the participants this was molded and changed to other domains to satisfy the quench of participants.

Lectures, hands-on labs, interactive discussions, and best practices were presented during the workshop to ensure technical and professional success. We also highlighted case studies which outline real-world results and best practices to help engineers achieve their current and future modeling & simulation technology goals.

The training program was conducted by experienced engineers with years of hands-on experience. The group leader of the trainers was Ir. C. Kleijn. Mr. Kleijn, Managing Director, Controllab Products B.V., Netherlands, is the chief architect of 20sim package with more than ten years of experience as a consultant in power transmission, control engineering and mechatronics. One day dedicated session by Frank Groen, Application Engineer from the same company was arranged to demonstrate the real time interface of 20sim with ARM9 and the hardware setup.

#### **Testimonials from your mouth:**

Ever have one of those days where you're working hard, nose to the grindstone, striving to make sure your latest project is on time and on target; and then suddenly out of nowhere, you overhear someone complimenting your efforts? It's not a comment that you solicited, but independently you find out that all of your hard work is recognized as the best among your peers and you're headed in the right direction.

**Christien Kleijn, Managing Director, Controllab Products, Netherlands** while expressing his views on this training said "We develop customized training/learning content in a variety of modes. We have developed courses in a multitude of topics - everything from mechatronics to robotics, neural networks to control systems, and shafts to compressors; for widely varied audiences."

**Dr. Ahuja, Deputy Director - College of Engineering, Pune** said, "From a technical perspective ni2 has done outstanding work during the training. We are quite happy with the way the courses were drafted and operated; most imposing had been ni2's ability to make the applications intensive courses fully compliant with the real time simulation practices."

**Dr. Sutaone, Professor ECE Dept. COEP,** said "The team from 20-sim worked very efficiently at completing the trainings. The professionalism and instructional design experience of the team members were instrumental in producing a well-designed and highly comprehensive course."

Frank Groen of Controllab Products demonstrating Real Time Application Interface features of 20-sim with 4C toolchain.



Indian training batch at Industrial System Engineering department of Asian institute of Technology (AIT), Bangkok



Dr. B.B. Ahuja of COEP interacting with Ir. Christian Kleijn, Managing Director of Controllab Products



Dr. Nitin Afzulpurkar of AIT explaining lab facilities to Indian training batch

#### Education Engagement Training for Thai batch:

One day introductory training was also successfully imparted to the Thai participants. With this breadth of course offering, context, and software options, we taught them to leverage education solutions that are comprehensive, effective, accessible and right for them.

**During our training program we teach how cutting edge softwares and services could build a culture of continuous blended learning and realize a measurable return on education**

Dr. Chaya Joshi, Head ECE, COEP, said, "Their modules and lab exercises addressed the critical problems faced by academicians for Real time applications, 3-D Animation, FFT, etc. to ensure a smooth and successful training delivery."

Dr. Chowdhary, Dean Academics, Electrical Engineering, COEP, said- "20-sim course modules were designed to help us gain a better understanding of applications of software for dynamic modeling and simulation; and use them more effectively to meet our requirements. The training methodology was very unique and effective."

Last but not the least we would like to express our gratitude to visionary academician and **Director of College of Engineering, Pune, Dr. Sahastrabudhe**, for taking initiative in participation of COEP staff in this AP training. He worked on all grounds to make sure that the staff of COEP should always be in tune with the current teaching methodologies, and played a silent but pivotal role in making this training program a success.

#### AIT-Bangkok visit:

*The best way to find out what any place has to offer is to see it for yourself.*

During the 20-sim AP Training program, ni2designs conducted the technical visit at the first-rate Robotics & Mechatronics Lab of the Asian Institute of Technology at Bangkok, under the tutelage of Dr. Nitin Afzulpurkar, Associate Professor of Mechatronics & Microelectronics and Associate Dean, School of Engineering and Technology.

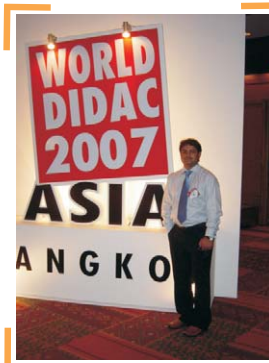
The purpose was to perform inspection of the current dynamic modeling & simulation softwares in order to get an opinion on how well the existing tools are suitable for Mechatronics & Robotics and about soft computing algorithms for Robotics and Automation applications. During this visit the participants were introduced to design and development of devices and sensors; automation and control of machines; Product design and integration of machines and processes; mechatronics applications for industrial use, planning, operation, control and logistics of Industrial and Mechanical engineering.

Frank Groen of Controllab products with Thai training batch



#### WORLD DIDAC Exhibition:

We were also present at WORLD DIDAC 2007, held at Bangkok. WORLD DIDAC ASIA 2 features the latest innovations and technologies on educational materials and media from all over the world. ni2designs was represented by Sunil Zade, Country Manager EDA; and Bhupesh Purohit, Director- International Relations. During the summit ni2designs worked for collaboration, exchanging, promoting, networking and sharing of the best practices in education among leaders from every corner of the world. The theme of the World DIDAC "In Search of Excellence in Education" and our active involvement in it properly explains our strong intention and determination to generate educational excellence.



Sunil Zade, Country Manager, ni2designs in World DIDAC 2007, Bangkok

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