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## ***DSPnano© Open Source RTOS Targets Microchip Technology's 16 bit dsPIC® DSCs and PIC24 MCUs***

### ***Perfect DSP Components and Tools for dsPIC DSC Family***

**Waterloo, Canada, August 14, 2007** – RoweBots Research Inc., a Waterloo supplier of software tools and embedded system consulting, today announced the launch of DSPnano Version 2 for the 16 bit dsPIC® Digital Signal Controller (DSC) and PIC 24 microcontroller (MCU) families from Microchip Technology [NASDAQ: MCHP], a leading supplier of microcontroller and analog semiconductors.

DSPnano is an open source RTOS and Eclipse based tool set which increases small embedded signal processing system development productivity and reliability. OEM users can develop faster and better applications in less time to meet stretch market goals using these off the shelf products.

DSPnano is ideally suited for small signal processing development by engineers who need stringent control over their environment and revel in simplicity. It supports the entire dsPIC DSC family and is intended for use in OEM environments where time to market and multiple products using the same software platform is a requirement. Users benefit from tried and proven components, an integrated IDE, open source technologies, architectural flexibility, exceptional quality and integral signal processing features and libraries.

From Microchip's PIC24 16 bit MCUs through the dsPIC 30 30 MIPS DSCs to the dsPIC 33 40 MIPS DSCs, DSPnano offers seamless support including:

- C/C++ integrated development environment (IDE) based on Eclipse with a highly productive user interface,
- DSPnano operating system level simulator,
- seamless integration with Microchip's MPLAB® IDE for instruction level simulation, compiling and debugging,
- integrated DSP RTOS with full POSIX capabilities and a tiny foot print to minimize training time and processor size,
- DSP libraries with 650 functions for off the shelf tried and proven processing,
- complete I/O minimizing development and integration,
- integrated with MPLAB IDE to use the MPLAB ICD 2 and MPLAB REAL ICE™ debugging and emulation hardware development tools.

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DSPnano offers flexibility which allows developers to quickly change processor sizes to that most suitable to the current application. This flexibility is exactly what is required for lean product development.

“The ability to reuse tried and proven components and to exploit new signal-processing hardware easily cuts time to market, dramatically improves quality and substantially reduces risk.” said Jim Pepping, Third Party Support manager at Microchip.

Lost time to market, customers disappointed with product quality and missed product price points are the three biggest problems OEM developers must overcome. DSPnano and the dsPIC DSC directly [solve these problems](#) using [open source technology](#).

“dsPIC DSC and DSPnano together gives project managers, product marketing managers, developers and engineering managers the tools they need to quickly adapt to new market demands without sacrificing quality or time to market.” stated Kim Rowe, a founder of RoweBots, “And organizations can include it quickly and easily at low cost, getting immediate return on investment.”

DSPnano V2 is hosted on Windows XP and Vista, for x86 platforms. Support for the entire dsPIC DSC product line and the PIC24 MCU line is available.

DSPnano V2 will begin shipping in Q3, 2007. It is priced from \$499 US for a single user. Open source royalty free licenses start at \$3999 US. All purchases can be made from [www.rowebots.com](http://www.rowebots.com).

#### About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller and analog semiconductors, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Ariz., Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at [www.microchip.com](http://www.microchip.com).



## About RoweBots

RoweBots Research Inc. was founded in 1987 and has developed signal processing products throughout its history. Today, RoweBots is developing the next generation of modular signal processing software for embedded OEM applications in the areas of communications, robotics, military, aerospace and consumer electronics. The company is based in Waterloo, Canada. For more information visit the RoweBots website [www.rowebots.com](http://www.rowebots.com).

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### **30 - For more information:**

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