The Event at a Glance

• You get to know the latest developments in the field of industrial robot programming for shop floor manufacturing and small lot size production in woodworking.
• Applicability to processes at your company will be discussed with experts.
• Your opinion on different methods will guide further developments!

Final Presentation & Assessment Meeting
Woodworking Robot Assistant

One of the keys to success for developing and implementing effective and efficient robot systems for small lot size production in an SME end-user environment, is the integration of the specific needs and requirements from the end-user point of view.

The workshop “Final Presentation & Assessment Meeting for the Woodworking Robot Assistant” offers a platform for potential technology users as well as for the technology developers.

During a one-day event the woodworking robot assistant will be demonstrated and will be tested by the participants. Participants will be also actively involved in the evaluation and assessment of the technologies with respect to their own needs and requirements.

Participation and Benefits
Participation in this interactive workshop is in particular of high interest for SME end-users in the woodworking sector, e.g. carpenters/joiners, woodworking companies with small batch production, system integrators, and for woodworking technology multipliers.

During the course the very near future of robot technology suitable for various woodworking applications will be demonstrated. It is a unique opportunity for the participants to view and test these devices.

The SMErobot™ Project
SMErobot™ is a European Research Project for Strengthening the Competitiveness of SMEs in Manufacturing. It is aimed at developing low-cost, modular and interactive automation solutions for European Small and Medium-sized Enterprises (SMEs) in manufacturing. Based on the potential of industrial robots, SMErobot™ creates radically new types of robot systems, offering a whole new family of SME-suitable robots.

Organization

Information and Registration
Mr. Maarten BONKE (SME Co-ordinator in SMErobot)
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Participation
The workshop is free of charge. We expect your active involvement with respect to a hands-on contribution when testing and evaluating the system and devices.
To foster the participation of SMEs we have the opportunity to partly reimburse your travel expenses. Please ask for conditions.
We will accept your registration until Friday, 16 January 2009.

Accommodation
Hotels in Obernburg:
• Hotel Römerhof ([www.roemerhof.de])
• Hotel Zum Anker ([www.zum-anker.net])
• Hotel Karpfen ([www.hotel-karpfen.de])

Venue
Reis Robotics GmbH & Co. KG
Walter-Reis-Straße. 1
63785 Obernburg, Germany
www.reisrobotics.de/KONTAKT/anfahrtsskize-p-691.html

Woodworking Robot Assistant
Program
Friday, January 30th, 2009

08:30 Arrival of Participants at Reis Robotics

Bus Transfer from Reis Robotics to Schreinerei Som

At Schreinerei Som, Zeller Straße 12, 64720 Michelstadt
09:30 Welcome and Introduction to the European Research Project SMErobot
09:45 Practical Presentation of the Woodworking Robot Assistant
10:15 Coffee Break
10:45 Individual Practical Testing and Assessment of the Demonstration System
12:30 Bus-Transfer from Schreinerei Som to Reis Robotics

At Reis Robotics, Walter-Reis-Straße 1, 63785 Obernburg
13:00 Lunch Buffet
14:00 Discussion and Assessment of the Project Results by the Participants
16:30 Company Tour at Reis Robotics (optional)
17:30 End of Final Presentation & Assessment Meeting

This workshop is part of the Integrated Project SMErobot™ funded by the European Commission’s Sixth Framework Programme under grant no. 011838. Please find further information at

www.smerobot.org

Woodworking Robot Assistant

Using the touch screen to move the robot
Contemporary robot programming is sometimes complicated: programming devices, the so called teach pendants, are pretty complex. A new programming device based on known standard hardware and touch screen interaction makes it easy to move and program the robot.

Demonstrate the robot what to do
You can grab the robot and move it following the intended path or pointing to the required position. By using this programming method, complex tasks can be done in minutes!

Use of standard tools
With the manual tool adapter, standard woodworking tools can be easily connected to the robot.

No drawings are needed
The 3D-Modeler will enable to create product data directly from an example part and send it to the robot programming controller.

Possible applications
Within the SMErobot project 3 typical woodworking applications have been developed and are integrated in the Woodworking Robot Assistant:
1. Spraying
2. Milling
3. Drilling