TI India University Program

In collaboration with C-DAC Hyderabad &

Cranes Software International Ltd

announces a

Three-day workshop on

"Embedded Linux on Beagleboard"

Venue – C-DAC, Nalanda Building, No. 1

Shivabagh, Satyam Theatre Road,

Ameerpet,

Hyderabad – 500016, Andhra Pradesh

(India)

Telephone: +91-40- 23150115/ 23050085

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Technical CoSponsors

Workshop Speaker: Mark Yoder, Rose-Hullman Institute of Technology, USA

Prof. Mark A. Yoder likes teaching Digital Signal Processing (DSP). He is co-author of two award-winning texts, "Signal Processing First" and "DSP First: A Multimedia Approach", both with Jim McClellan and Ron Schafer. He is also a co-author for the Infinity

Project, an engineering curriculum for high school students and has co-authored the text for this project, "Engineering Our Digital Future". Dr. Yoder is a professor of Electrical and Computer Engineering at Rose-Hulman Institute of Technology. This is a small private, nationally ranked engineering college located in Terre Haute, Indiana, USA. He received the school's Board of Trustees Outstanding Scholar Award in 2003. Prof. Yoder received the BS degree in 1980 and the Ph.D. in 1984 in Electrical Engineering from Purdue University, West Lafayette, Indiana, USA.

Workshop Summary

Linux, which is an "open source" operating system and enjoys considerable popularity on general-purpose computers, is becoming popular in the embedded world also. Different versions and variants of Linux are now available on embedded platforms. In this workshop, the intention is to provide a hands-on introduction to concepts of Linux Systems/Kernel Programming and Embedded Linux

Beagleboard is a low-cost open-source embedded system development platform. It is based on Texas Instruments DM3730 processor, which includes an on-chip ARM Cortex-A8 processor core, a Texas Instruments C6x DSP core, and a host of peripherals. Beagleboard is a single board computer, which provides adequate performance to run Linux software, yet has a power consumption lower than 2W. A large number of embedded applications have been developed on Beagleboard (www.beagleboard.org) Module A provides a gentle introduction to the subject of Embedded Linux, Linux Systems Programming and Linux Kernel Programming. The intention of Module B is to provide a hands-on exposure to running Embedded Linux operating system on the Beagleboard and develop system software on the Beagleboard.

About TI & TI India University Program

Texas Instruments (www.ti.com), widely known as TI, is a multinational semiconductor company headquartered in Dallas, Texas United States. TI is a leading manufacturer of semiconductor products such embedded processors (microprocessors, DSP, microcontrollers), analog circuits, wireless chip sets, and digital light processing chips. TI established its Indian operations in

Bangalore in 1985. TI India has a University Program called "UniTI" through which universities can get support for labs, IC samples, teaching materials, events, train-the-trainer programs, etc. Please see http://www.uniti.in for more details.

About C-DAC Hyderabad

C-DAC, Hyderabad is a Knowledge centre with the components of Knowledge Creation, Knowledge Dissemination, Knowledge Application to grow in the areas of Research & Development, Training and Business respectively. The R & D areas of the centre are e-Security, Embedded Systems, Ubiquitous Computing, e-Learning and ICT for Development. The centre has developed over a period of time a number of products and solutions, such as EnSafe, RealSafe, e-Sikshak, e-Savya, CET Automation Tool, Quality Assurance Analytics Tool for e-Learning etc. The centre has established a number of labs in cutting edge technologies like e-Suraksha Concept Lab, Malware Resource Centre, Ubiquitous Research Centre, Walk-in e-Learning Technology Laboratory, etc. The centre has also actively involved in ICT for development through its Multilingual "India Development Gateway (InDG)" Web Portal. The centre has also taken initiative for creating Mass Awareness in Information Security. In line with these R&D strengths, the centre also offers Post Graduate level diploma courses in the areas of Network Security, Embedded Systems, VLSI, System Software Development, Advanced Business Computing etc

About Cranes Software International Ltd

Cranes Software International Limited (www.cranessoftware.com) is the University Partner for Texas Instruments India's University Program. It is the authorized university distributor in India, with a distinct delivery model specifically designed to meet educational and training needs across the country. Cranes has setup over 1000 +TI DSP Labs, close to 100 TI MCU and TI Microprocessor labs, and about 50 TI Analog Labs in the country. It annually conducts over 400 small and large TI DSP, TI DSP, TI MPU, and TI Analog workshops in India.

About IEEE Hyderabad Section

IEEE Hyderabad Section is one of the most active sections of IEEE in India. IEEE was formally introduced in Hyderabad, in June 1981, when a group of engineers in Hyderabad decided to form an IEEE sub-Section here. This sub-Section was rapidly elevated to a full Section, in 1984 (the year of IEEE Centenary celebrations). It has about 2400 members.

Registration Fee:

Before May 21, 2012	After May 21, 2012
Industry Professionals: Rs 10,000/-	Industry Professionals: Rs. 11,000/-
Students/Teachers: Rs 5000/-	Students/Teachers: Rs 6000/-
IEEE/IETE/CSI members can receive a discount of 10%	IEEE/IETE/CSI members can receive a discount of 10%
Discounted price for Government of India organizations: Rs 5000/-	Discounted price for Government of India organizations: Rs 6000/-

Registration fee includes the service tax. Please fill out the registration form provided at the end of this announcement. Please send a scanned copy of the registration form to deepanker.parikh@ti.com with the subject line "Beagleboard – Hyderabad Registration" and a copy to maheshp@cdac.in Candidates can pay the Work shop fee either by DD / Online transfer. If you wish to pay by DD, make it in favor of **"C-DAC, Hyderabad"** payable at Hyderabad. If you wish to do an online transfer, please follow these guidelines.

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- **Contact Deepanker Parikh (deepanker.parikh@ti.com) or Mahesh U.Patil (maheshp@cdac.in) for queries regarding registration. Make sure you use the subject line "Beagleboard: Hyderabad – Your Name"**

- **Contact C.P. Ravikumar (ravikumar@ti.com) for general queries about TI India University Program (www.uniti.in)**