

One-Day Seminar on CAN and CANopen Technology
Date: 29th September, 2010

Registration Form

Applicant : _____

Industry / University / Institute : _____

Address for Correspondence : _____

Email: _____

Contact Number: _____

Demand Draft details :

Name of the Bank: _____

Demand Draft No: _____

Applicant's Signature : _____

Date : _____



Delhi Technological University in association with CiA (CAN in Automation), Germany and Global Technology, Mumbai

Mailing Address

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One Day Seminar on CAN and CANopen Technology

First Time in North India





Speaker

Holger Zeltwanger

MD CiA Germany

Seminar Details

Date	-	29 th September, 2010
Registration	-	09:00 to 10:00
Time	-	10:00 to 16:00
Tea Breaks	-	11:00 to 11:30 & 14:45 to 15:15
Lunch Time	-	13:00 to 14:00

Venue : Auditorium, Delhi Technological University, Delhi

Participation Fee :

For working Professionals / Outside Faculty Rs. 1000/-

For External Students Rs. 500/-

Last date of registration : 24th September, 2010

Coordinator :

Ashish R. Kulkarni

Assistant Professor in Electrical Engineering

About CiA and Global Technology

CiA (CAN in Automation), Germany is a non-profit organization founded in the year 1992, by group of companies in order to provide technical, product and marketing information. With 500 companies the aim of the organization is to provide a path for future development of CAN protocol.

Global Technology, Mumbai is a Non-Profit Self Sustained Organization geared up with the highly experienced members to carry out the task of Technology Promotion in a dedicated manner. It aims at increasing awareness about CAN (Controller Area Networking) in India and provides all necessary and unbiased support to Indian Industry Professionals and Fresh Graduates, venturing in Automation with this popular field bus system.

About Seminar

This Special Seminar on CAN and CANopen Technology is a wonderful opportunity to Engineers for understanding intricacies of this popular serial field bus system.

CANopen is the internationally standardized (EN 50325-4) CAN-based higher-layer protocol for embedded control system. CANopen networks are used in a very broad range of application fields such as machine control, medical devices, off-road and rail vehicles, maritime electronics, building automation as well as power generation.

Core Speaker's Profile

Holger Zeltwanger (born 1952) finished his studies at the Fachhochschule Braunschweig/Wolfenbuettel (Germany) in 1976 with a diploma in electronic engineering.

He worked at Siemens as a system programmer for two years. After that he was a technical editor for German and American magazines for more than 14 years. In 1992 he founded the international users' and manufacturers' group CAN in Automation (CiA). Since then he has worked as Managing Director for CiA.

Registration Details

Interested candidates need to apply in prescribed registration form that is part of this brochure. You can also register online by visiting our website www.dce.edu

The duly filled form along with DD should reach Coordinator, CAN Seminar by post on or before 24th September, 2010. DD should be in favor of **Registrar, Delhi Technological University, Delhi.**

Salient features of Control Area Network(CAN)

- Distributed controllers – Separate CPU per application.
- Inexpensive standard available CAN logic components can be used.
- Input and output Data passed to each application by a 2-wire common bus with common ground.
- Small DATA Packet per application. Only destination name required in the packet.
- Each application distinctly named.
- High speed for automation because of optimized data packets.
- Real time automation application possible.
- Max speed 1 mbit/s for short distances.
- Large distances upto 1 km possible at lower data speeds on the same BUS.
- NRZ (Non return to zero) encoding on BUS signals provides noise immunity.

Benefits of CAN

Processing power increases as the CPUs get added per application. Reduction in wiring because of common 2-wire bus for data communication plus common ground.

- Faster response as limited data packet per application has to be passed on the BUS
- Well defined communication protocol for reliable data transfer
- Multiple Master CPU's control possible.

CANopen Features

CANopen provides standardized software development methods and profiles. Like for automobiles, for lifts, for cranes, for trains etc. Any operating system development platform may be used. Systematic standards help user, to integrate different manufacturers devices in project. Standard CANopen profiles for vehicles, lift control, cranes, railways and many others are already available while for new applications are on the way.

CAN Applications

- Passenger cars
- Truck and bus
- Truck superstructures
- Off-highway vehicles
- Rail vehicles
- Metro and tram
- Railway signaling
- Maritime electronics
- Off-shore (subsea)
- Aircraft and helicopter
- Aerospace
- Cranes
- Road construction
- Factory automation
- Production line
- Process automation
- Machine control
- Textile machines
- Plastic machines
- Printing machines
- Packaging machines
- Up/downstream devices
- Medical devices
- Operating room
- Intensive care unit
- HVAC control
- Lift control
- Embedded door control
- Gambling machines
- Vending machines

Organising Committee

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