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VIT UNIVERSITY, Vellore

&

CiA, Germany

One day Seminar on

CAN Bus

and

CAN Open Technology

Principal Speaker

Mr. Holgar Zeltwanger

MD CiA (Germany)

World renowned CAN Trainer



On

Monday 27th September 2010

(10.00 A.M. To 4.00 P.M)

Venue:

GALLERY-I

VIT University

Salient features of CANBUS

1. Distributed Controllers – Separate CPU per application.
2. Inexpensive standard available CAN logic components can be used.
3. Input and Output Data passed to each application by a 2 wire common bus
4. Small DATA Packet per application. Only destination name required in the packet.
5. Each application distinctly named.
6. High speed for automation because of optimized data packets.
7. Real time automation application possible.
8. Max speed 1 Mbit for short distances.
9. Large distances upto 1 Km possible at lower data speeds on the same BUS.
10. NRZ (Non return to zero) encoding on BUS signals provides noise immunity.

Benefits of CANBUS

1. Processing Power increases as the CPUs get added per application.
2. Reduction in wiring because of Common Two wire bus for data communication.
3. Faster response as limited data packet per application has to be passed on the BUS
4. Well defined communication protocol for reliable data transfer
5. Multiple Master CPU's control possible.
6. wide area networking options possible.
7. Integrated CAN controlled modules in Compact size can be developed.
8. Easy fault Diagnosis
9. No False errors.
10. Cost Saving in Automation Projects.

CANOpen

Features

1. CANOpen provides standardized software development methods and profiles. Like for Automobiles, For Lifts, For Cranes, For Trains etc.
2. Any Software development platform may be used.
3. Systematic standards help user, to integrate different manufacturers devices in project.
4. Standard CANOpen profiles for Vehicles, Lift Control, Cranes, Railways and many others are already available while for new applications are on the way.

CAN Application

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

About Speaker

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.

He is a World renowned CAN Trainer and prime driving force at CAN in Automation as Managing Director since 1992. He has conducted hundreds of Seminars worldwide in US, UK, Japan, China and India.

Seminar Agenda

The First Half of the one-day seminar provides an overview on the CAN data link layer and the high speed CAN transmission. It introduces to device designers the basics and some details of the CAN protocol including some design hints and kinks.

The second half of the seminar introduces you to the basic CANopen functions and some CANopen profile specifications. CANopen profiles specify the content of process data, configuration parameter, and diagnostic information for generic (e.g. I/O modules and electrical drives) as well as application-specific (e.g. for lift control or medical electronics) devices.

Time schedule for CAN Seminar.

Registration	08:30 to 9:45
CAN Seminar duration	10:00 to 16:00
Tea Breaks	11:00 to 11:30, 14:45-15:15
Lunch time	13:00 to 14:00

Seminar Agenda

- Introduction to CAN
- CAN application fields
- CAN protocol
- CAN implementations
- CANopen Protocol
- CANopen embedded networking
- CANopen examples

All Participants Please Note :

The time schedule has to be strictly followed to give justified coverage to all topics.

Registration

Registration Fee : Rs 500 / - [for students]
: Rs 1000/- [for working Professionals]

Pay By Demand Draft Drawn in favor of "VIT University"

Send the **DD** along with the **Registration form** to

The Coordinator [CAN and CAN open Tech]

Embedded System Division

School of Electronics Engineering

VIT University

Vellore-632014

LAST DATE for Registration: September 25, 2010

Enquiry

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Registration Form

- Date : _____
1. Participants' Name 1 : _____
2. Name of the Organisation : _____
3. Designation : _____
4. Address : _____

5. Phone No. : _____
6. Cell No. : _____
7. E-mail Id. : _____
8. D.D. No. : _____
9. DD date : _____
10. Bank Name : _____
- Participant's Signature : _____