Robotics & Automation Society
Madras Chapter

You are cordially invited for the inauguration of

IEEE TECHNICAL WORKSHOP
titled

Robot and its Techniques of Autonomous Vehicle Design

organized by

RAS Madras Chapter IEEE Madras Section
in association and Technical support with
Lema Labs

IEEE Madras Section

Lema Labs

On 15.03.2013, 08.30 AM

Central lecture Theatre, IIT Madras, Chennai- 600 036

Dr. G V RAO
Chairman & Managing Director
Rowsons Marketing Pvt., Ltd.
inaugurates

Dr. K Sridharan
Robotics & FPGA based design , Electrical Science Block,
IIT, Madras
Presides

T S RANGARAJAN
IEEE Madras Section (Chairman)
Chief Guest

Mr. P A Manoharan
RAS(Chairman)

Mr. Kedar kulkarni
CEO, Lema Labs

Inauguration of
IEEE Students Workshop

"*Robot and its Techniques of Autonomous Vehicle Design*"

15.03.2013

Venue: Central Lecture Theatre, IITM, Chennai-36

AGENDA

08.30 A.M Invocation

08.32 A.M Welcome Address

Mr. P A Manoharan
Robotic & Automation Society(Chair)

08.40 A.M About the Programme

Dr. G V RAO
Chairman & Managing Director
Rowsons Marketing Pvt., Ltd. inaugurates

08.45 A.M Presidential Address

Dr. K Sridharan
Robotics & FPGA based design, Electrical Science Block, IIT, Madras**,**
Presides

08.50 A.M Special Address by Chief Guest

T S RANGARAJAN

IEEE Madras Section (Chair)

Chief Guest

WORKSHOP SCHEDULE

9.00 A.M **Introduction about Robotics and Vehicle Automation**
(Mr P A Manoharan)

09.30 AM **Basics of automation**
Why is automation required?
How do simple automated systems work?
(Mr. Kedar Kulkarni)

10.00 AM **Introduction to serial communication**
Basics of serial communication
Computer controller robot
Mobile controlled robot

Introduction to Control systems
Basics of control systems
Applications of control systems

Advanced technologies
Introduction to computer vision
Applications of computer vision

Simple Robots
Line follower robot
Obstacle avoider robot
Table top robot
(Mr. Gokul Chandrasekaran and
Mr. Zaheer Naivasal, LemaLabs)

12.00 AM **Lunch**

12.30 PM **Live demo and presentation of hardware**

01.00 PM **Hands on training**

02.45 PM **Valedictory Function**

02.55 PM **Vote of Thanks**