

Report on One-Day Workshop on "Exploring the World of Wiring Harness Engineering and Careers"

Organized by:

Department of Electrical and Electronics Engineering (EEE) & Alumni Association

Venue:

Sreenivasa Institute of Technology and Management Studies, Chittoor

Date and Time:

24th August 2024, 10:00 AM

Coordinators:

- **Dr. P. Sudheer**, HOD - EEE
- **Mr. Sheik SAA**, Alumni Association Coordinator

Resource Person:

- **Mr. V. Vuthej Kumar**, Engineering services associate, Accenture solution PVT Ltd, Bangalore who is Expert in Wiring Harness Engineering

Introduction:

A one-day workshop on "Exploring the World of Wiring Harness Engineering and Careers" was conducted on 24th August 2024 at Sreenivasa Institute of Technology and Management Studies, Chittoor. This workshop was organized by the Department of Electrical and Electronics Engineering (EEE) in collaboration with the Alumni Association, under the guidance of **Dr. P. Sudheer**, HOD of EEE, and **Mr. Sheik SAA**, Alumni Association Coordinator. The session was specifically designed for EEE students to familiarize them with the critical aspects of wiring harness engineering and the associated career opportunities.

Objective:

The objective of the workshop was to provide an in-depth understanding of wiring harness engineering, its role in various industries, and the growing demand for professionals in this field. The workshop aimed to bridge the gap between academic knowledge and industry

requirements, offering students practical insights into wiring systems used in modern electrical and electronic systems.

Resource Person:

The workshop was conducted by **Mr. V. Vuthej Kumar**, an expert in wiring harness engineering. With extensive industry experience, Mr. Kumar shared his expertise in the field, highlighting the essential skills and knowledge required to excel in wiring harness engineering. As an alumnus of Sreenivasa Institute of Technology and Management Studies, he provided valuable career guidance to the students.

Key Topics Covered:

1. Introduction to Wiring Harness Engineering

- Overview of wiring harness systems and their significance in industries such as automotive, aerospace, consumer electronics, and industrial machinery.
- Basic components of a wiring harness, including connectors, terminals, and cables.

2. Design and Development Process

- The design considerations for creating efficient and reliable wiring harnesses, focusing on electrical load, signal integrity, and environmental factors.
- Tools and software used in wiring harness design, such as CAD software for routing and modeling.

3. Manufacturing and Assembly

- The step-by-step process of manufacturing wiring harnesses, from material selection to the assembly of components.
- Quality control measures to ensure the reliability and safety of the harnesses in various applications.

4. Industry Applications

- Discussion on the various applications of wiring harnesses in the automotive industry, home appliances, and large-scale industrial systems.
- The role of wiring harnesses in ensuring efficient power distribution and signal transmission in complex electronic systems.

5. Career Opportunities in Wiring Harness Engineering

- Exploration of the various career paths available in wiring harness engineering, from design and testing to manufacturing and quality assurance.
- The growing demand for wiring harness professionals in sectors like electric vehicles, defense, and consumer electronics.
- The importance of gaining hands-on experience through internships and industry projects to enhance career prospects.

Audience: The workshop attracted significant participation from EEE students, who showed keen interest in the subject matter. The interactive nature of the workshop allowed students to engage with the resource person, asking questions and discussing career options in the field of wiring harness engineering.

Conclusion: The one-day workshop on "Exploring the World of Wiring Harness Engineering and Careers" provided an enriching experience for EEE students. **Mr. V. Vuthej Kumar** offered valuable insights into the field, highlighting the technical challenges and career opportunities associated with wiring harness engineering. The workshop concluded with a vote of thanks delivered by **Dr. P. Sudheer**, HOD of EEE, who emphasized the importance of such industry-relevant workshops in equipping students with practical knowledge and preparing them for future careers.

The event was a successful initiative that connected students with industry experts, giving them a clearer understanding of the dynamic world of wiring harness engineering.

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" PASSIONATE TOWARDS PASSION - AN APPROACH TO CAREER PATH "
In Association with Department of EEE & Mech. Eng.
Workshop on
"Exploring the World of Wiring Harness Engineering and Careers"





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Date : 24-08-2024

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Signature of the Faculty

(Dr.P.Sudheer)

