



SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

Department of Electronics & Instrumentation

Report on Alumni Lecture Series- 2 by Mr. Deepak Mandloi

Introduction

On 19th January 2024, the department organized an expert alumni lecture titled "Industry Insights." The lecture was delivered by Mr. Deepak Mandloi, an esteemed alumnus of 2016 batch of the institute and currently an Embedded Software Developer at Ola Electric. The event was conducted in a hybrid format, allowing students to attend both in-person and online, which helped ensure broader participation.

Objective of the Lecture

The primary aim of the lecture was to provide students with a comprehensive understanding of the current industry landscape, specifically in the field of embedded systems, and the opportunities available in the rapidly evolving electric vehicle (EV) sector. Mr. Deepak Mandloi, with his first-hand experience in the electric vehicle industry, shared valuable insights into industry trends, challenges, and the skills required to succeed in the field.

As Mr. Mandloi emphasized during his lecture, **"Success in the industry is not just about technical skills, but about how you adapt, learn, and innovate within ever-changing environments."** This quote highlights the dynamic nature of the industry and the importance of continuous learning and adaptability.

Overview of the Speaker

Mr. Deepak Mandloi is an accomplished Embedded Software Developer at Ola Electric, a company at the forefront of India's electric mobility revolution. With a background in electronics and instrumentation, Mr. Mandloi has worked extensively in embedded systems development, particularly focusing on software solutions for electric vehicles. His experience in the EV sector, combined with his technical expertise, made him the ideal speaker for providing students with an in-depth perspective on industry practices and trends.

Key Highlights of the Lecture

- **Industry Trends and Innovations**

Mr. Mandloi began the lecture by discussing the major trends in the automotive and electric vehicle industries, with a particular focus on the growing role of embedded systems in modern EVs. He explained how embedded software is integral to EV operation, from battery management systems to motor control and vehicle-to-grid integration. He also highlighted the innovations in electric mobility and the increasing demand for skilled engineers in this field.



- **The Role of Embedded Systems in Electric Vehicles**

One of the key sections of the lecture was dedicated to the role of embedded systems in electric vehicles. Mr. Mandloi elaborated on how embedded software drives essential features in EVs, such as battery management, energy optimization, safety protocols, and real-time data processing. He provided examples of how embedded systems impact the overall performance and efficiency of electric vehicles, demonstrating the importance of software development in this sector.

- **Skills Required for the Industry**

Mr. Mandloi shared a detailed overview of the skills necessary to excel in the embedded systems domain, especially in the context of the electric vehicle industry. He emphasized the importance of a solid foundation in programming languages like C and C++, hardware integration, and understanding the Internet of Things (IoT). Additionally, Mr. Mandloi stressed the need for problem-solving skills, attention to detail, and the ability to work in a collaborative, fast-paced environment.

- **Career Opportunities in the EV Sector**

The lecture also covered the immense career potential within the EV sector. Mr. Mandloi discussed the growing demand for engineers in the electric mobility industry, with a special focus on roles in embedded systems, software development, and hardware design. He encouraged students to explore various career paths, including product development, research and innovation, and system integration in EV companies.

- **Q&A Session**

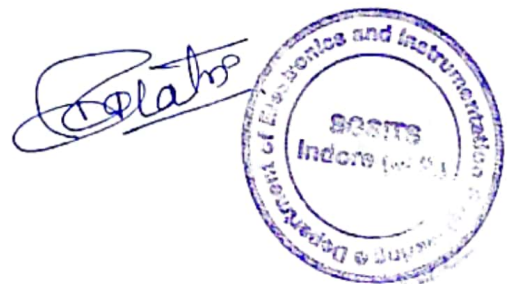
Following the lecture, an engaging Q&A session took place where students asked Mr. Mandloi various questions about career opportunities, industry expectations, and the future of electric mobility. Mr. Mandloi's responses were both informative and encouraging, providing students with a clear roadmap for navigating their careers in this dynamic field.

Student Engagement

The lecture saw active participation from the students, both in the offline and online formats. Students were highly engaged throughout the session, posing thoughtful questions during the Q&A, which reflected their keen interest in the topics discussed. The interactive nature of the lecture helped students understand not only the technical aspects of the industry but also the mindset and skills needed to succeed in it.

Conclusion

The expert alumni lecture by Mr. Deepak Mandloi provided valuable insights into the embedded systems and electric vehicle industries, offering students a deeper understanding of current trends and future opportunities. Mr. Mandloi's advice on continuous learning, adaptability, and the importance of technical and soft skills in shaping a successful career in the industry was greatly appreciated by the students.





Department of Electronics and Instrumentation Engineering

ALUMNI LECTURE SERIES 2024

(A Program of the Students, for the Students & by the Students)

RESOURCE PERSON

MR. DEEPAK MANDLOI

(Embedded Software
Developer, Ola Electric)

Alumni year : 2016

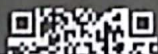
Topic : Industry Insights

Date : 19th Jan 2024

Time : 4pm to 5pm

Venue : Online google meet

CORDINATOR : DR ANUJ
RAWAT
MOB NO : +91 95993 43769





Students attending the lecture by Mr. Deepak Mandloi



Mr. Deepak Mandloi delivering his lecture

(Handwritten signature)





Students attending the lecture in offline mode



Students attentively engaged in the lecture

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