

# Industrial Visit Report: ST Microelectronics

**Date: 23 February,2024**

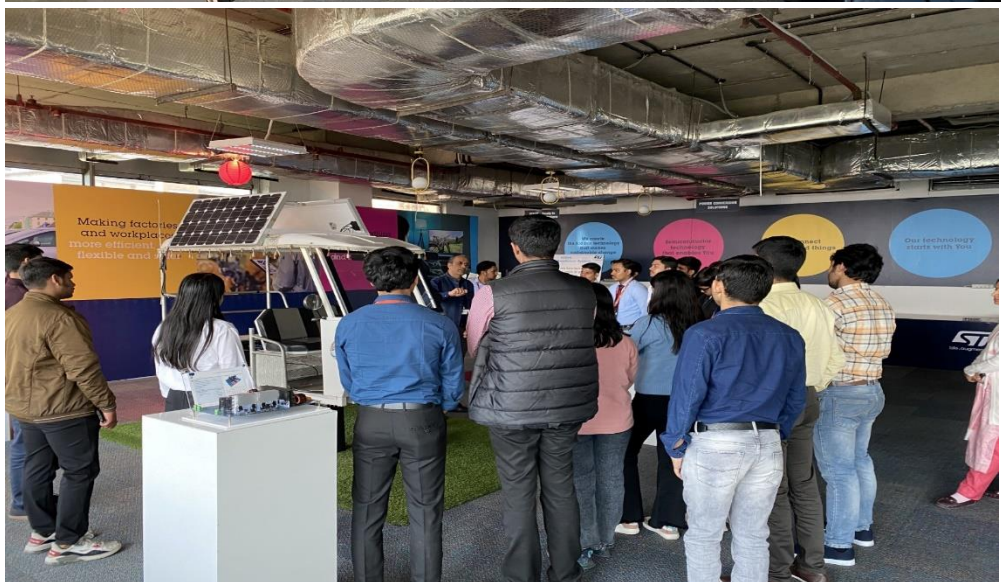
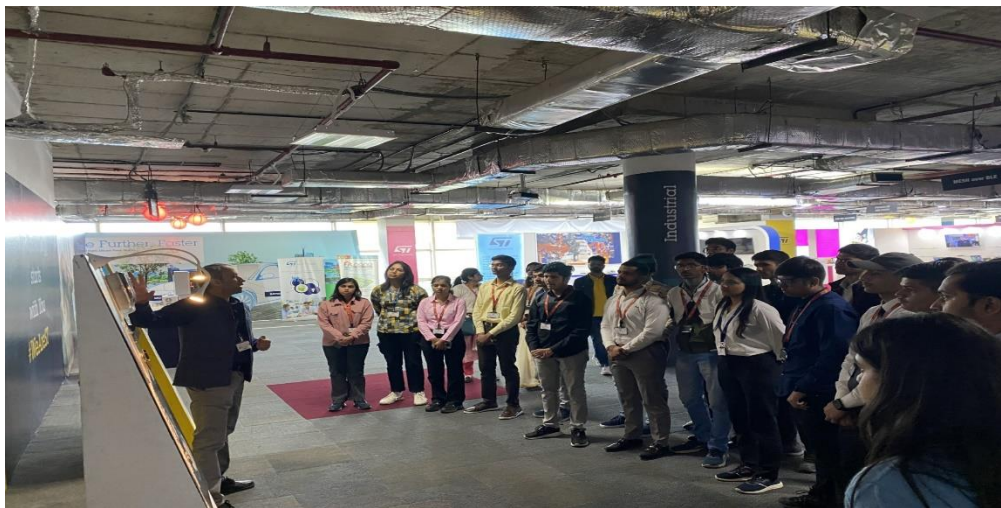
## **Introduction:**

Twenty five students from MSIT, Janakpuri embarked on an industrial visit to ST Microelectronics, a global semiconductor leader providing smart solutions. The students were accompanied by Ms. Himani (Industrial visit incharge, ECE Dept.) and Dr. Meena Rao (Placement Committee convener MSIT). The visit aimed to provide students with practical insights into the workings of a leading electronics company and expose them to cutting-edge technologies in the field.

## **Itinerary:**

- **Departure from College:** The visit commenced as the group departed from the college premises around 9:30 AM.
- **En Route:** Snacks were provided to us in the bus itself, allowing for a comfortable journey and informal interaction among the students.
- **Arrival at ST Microelectronics:** The group arrived at the company's premises at approximately 11:15 AM.
- **Reception and Orientation:**
  - Upon arrival, we were warmly welcomed and provided with visitor passes.
  - Two professionals greeted us and guided the group to the designated area.
- **Introduction by Mr. Raunak Quasir:**
  - Mr. Raunak delivered a comprehensive introduction to ST Microelectronics, covering its history, founder, headquarters in Geneva, and its positioning among competitors.
  - He highlighted the distinguishing factors that set ST Microelectronics apart from its competitors.
- **Presentation on VLSI by Mr. Vikas Chelani:**
  - Mr. Vikas provided an overview of Very Large Scale Integration (VLSI), explaining its significance in modern electronics.
  - He elucidated the design flow of VLSI circuits and discussed potential career paths in this field.
- **Presentation on Embedded Systems by Mr. Tanuj:**
  - Mr. Tanuj delivered an interactive presentation on Embedded Systems, focusing on STM products.
  - He encouraged students to explore STM products such as STM32 Cube MX on the company's website.
  - Mr. Tanuj also touched upon the relevance of platforms like Arduino and Neutrino boards in the realm of embedded systems.

- **Interactive Sessions:**
  - Both presentations were followed by engaging question and answer sessions, allowing students to clarify their doubts and deepen their understanding.
- **Snack Break:**
  - Following the informative sessions, snacks were served, offering a refreshing break.
- **DaVinci Studio Tour:**
  - The group proceeded to the DaVinci Studio, where various products featuring ST Microelectronics' microchips were showcased.
  - Demonstrations included innovative applications such as wireless power transfer kettle, smart homes, smart cities, and smart villages.
  - A smart robot demonstration captivated the audience, showcasing the integration of advanced technologies.
  - Additionally, the group was shown a bike featuring a gyroscope for enhanced stability, an e-rickshaw equipped with a solar panel for sustainable energy, and brushless fans demonstrating energy-efficient cooling solutions.





- **Group Photograph and Conclusion:**
  - A group photograph was taken to commemorate the visit.
  - The students expressed gratitude to the hosts for their hospitality and enriching experience.
- **Acknowledgment to Faculty:**
  - Students expressed gratitude towards the faculty members, Ms. Himani and Dr. Meena Rao for accompanying them and providing their guidance and support throughout the educational visit.
- **Return Journey:**
  - The visit concluded with the group boarding the bus to return to the college campus, concluding a fruitful and insightful industrial visit.

### **Conclusion:**

The industrial visit to ST Microelectronics provided students with invaluable exposure to the latest advancements in electronics and semiconductor technologies. Through interactive sessions, demonstrations, and presentations, students gained practical insights into the field of VLSI, embedded systems, and real-world applications of microchips. The visit served as an enriching educational experience, fostering a deeper appreciation for the intricacies of the electronics industry and inspiring future career aspirations among the participants. Dr. Meena Rao (Placement Committee Convener MSIT) coordinated in arranging and scheduling the event for the benefit of the students. The presence and support of the faculties, Ms. Himani and Dr. Meena Rao, further enhanced the learning experience, and we extend our sincere gratitude to them.

