



**A Report on
Alumni Expert Webinar on
“Emerging Trends in Embedded Systems”
(1st April 2023)**

Event Overview:

The webinar on “Emerging Trends in Embedded Systems” was organized on 1st April 2023 at Gandhinagar University by GITAA Cell. The Webinar was coordinated by Prof. Megha Desai. The session was organized for the students with the permission of Dr H N Shah, Director. The webinar was organized to give the idea about the emerging trends in the embedded systems and to motivate and educate the students about the different field in the Electronics and Communication engineering so students can select their interesting field.

Objective:

The main objective behind this GITAA talk is to shed light to the students about the emerging trends in embedded systems at industry level and to make the students aware of the multiple options after completing the engineering. This will be a very informative and helpful session for the students for their career growth.

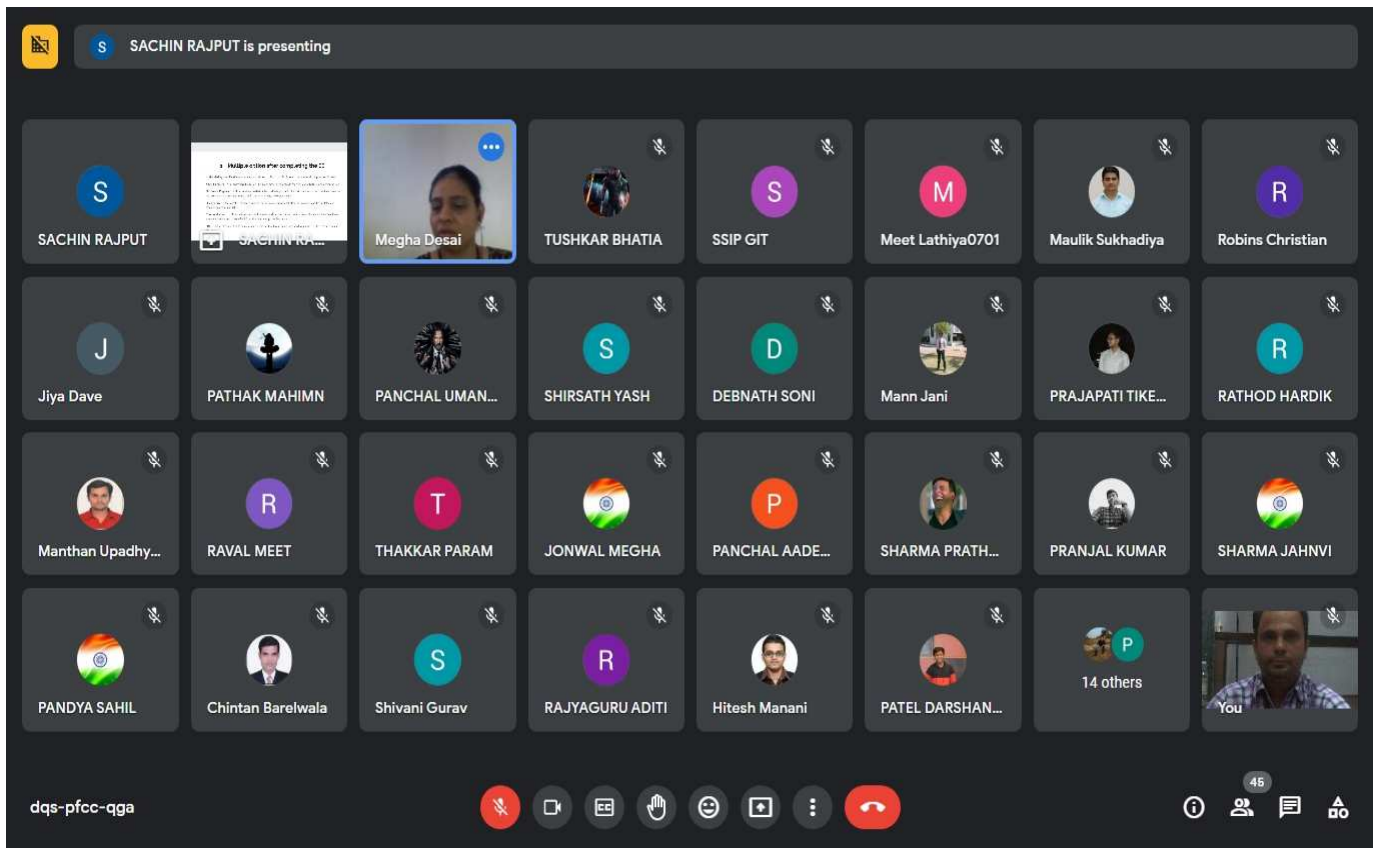
Program Overview:

The session was started at 10:00 AM with more than 50 student participants and faculty members via online platform. Prof. Megha Desai had initiated the introduction on GITAA. She had given information about the Summary of GITAA (Gandhinagar Institute of Technology Alumni Association) and had introduced the event Expert Mr. Sachin Singh, who is Successful Alumni of Electronics and Communication Engineering and has completed his BE in 2015 from GIT. Currently Mr. Sachin is working as Embedded Engineer at Volansys Technology. Mr. Sachin had explained multiple job options after completing BE like Embedded System Engineer, VLSI engineer, Hardware Engineer, QA Engineer, Communication engineer etc. He had also explained very nicely about the Languages used in embedded and trends of Embedded systems like IOT, AI, SOC and LoRaWAN etc. Finally, he concluded his session by solving many queries of students.

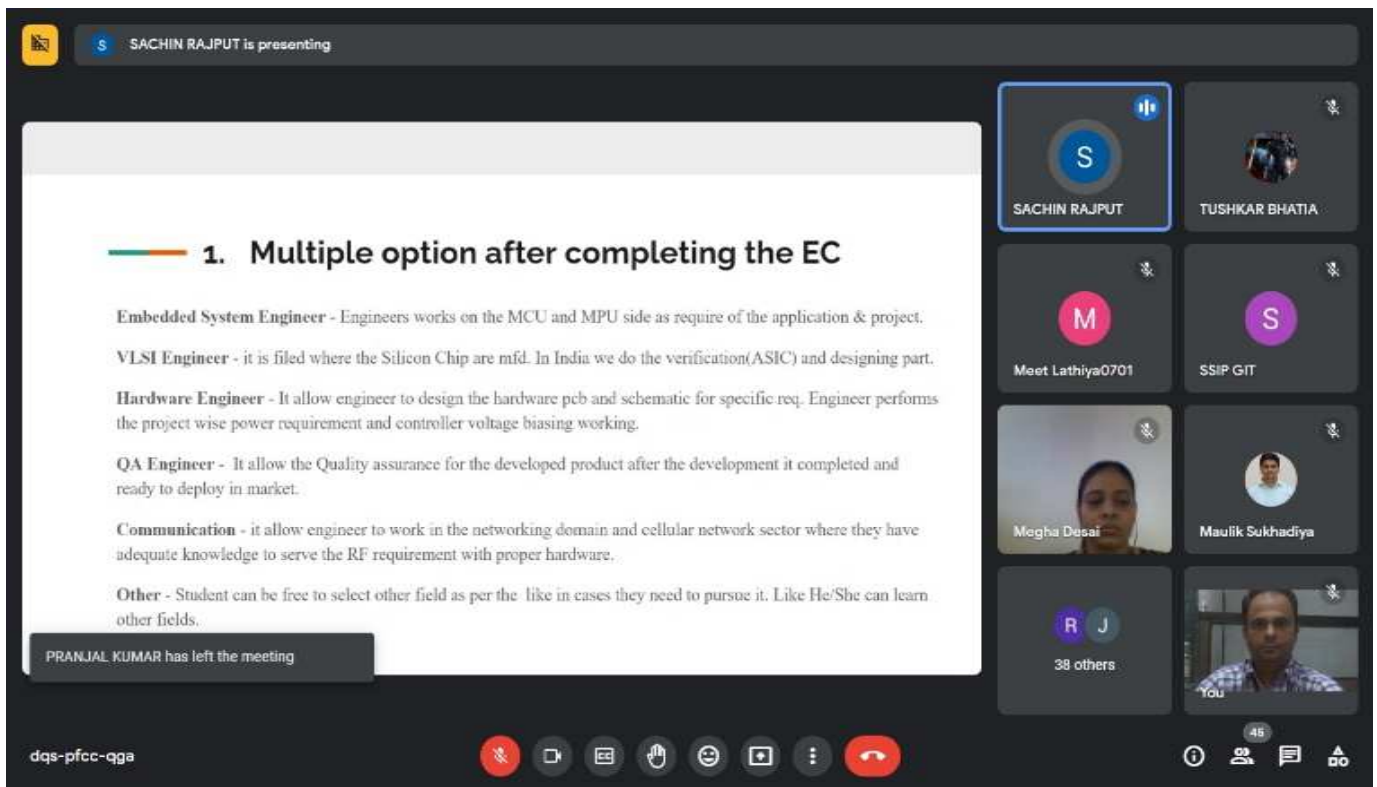
Outcomes of the event:

The Alumni Talk has facilitated interactions with alumni regarding career development, ability needed for grasping better opportunities and enhancing technical skills. The students were very enthusiastic to know about the experiences of the alumni in the outer world.

Photo Gallery:



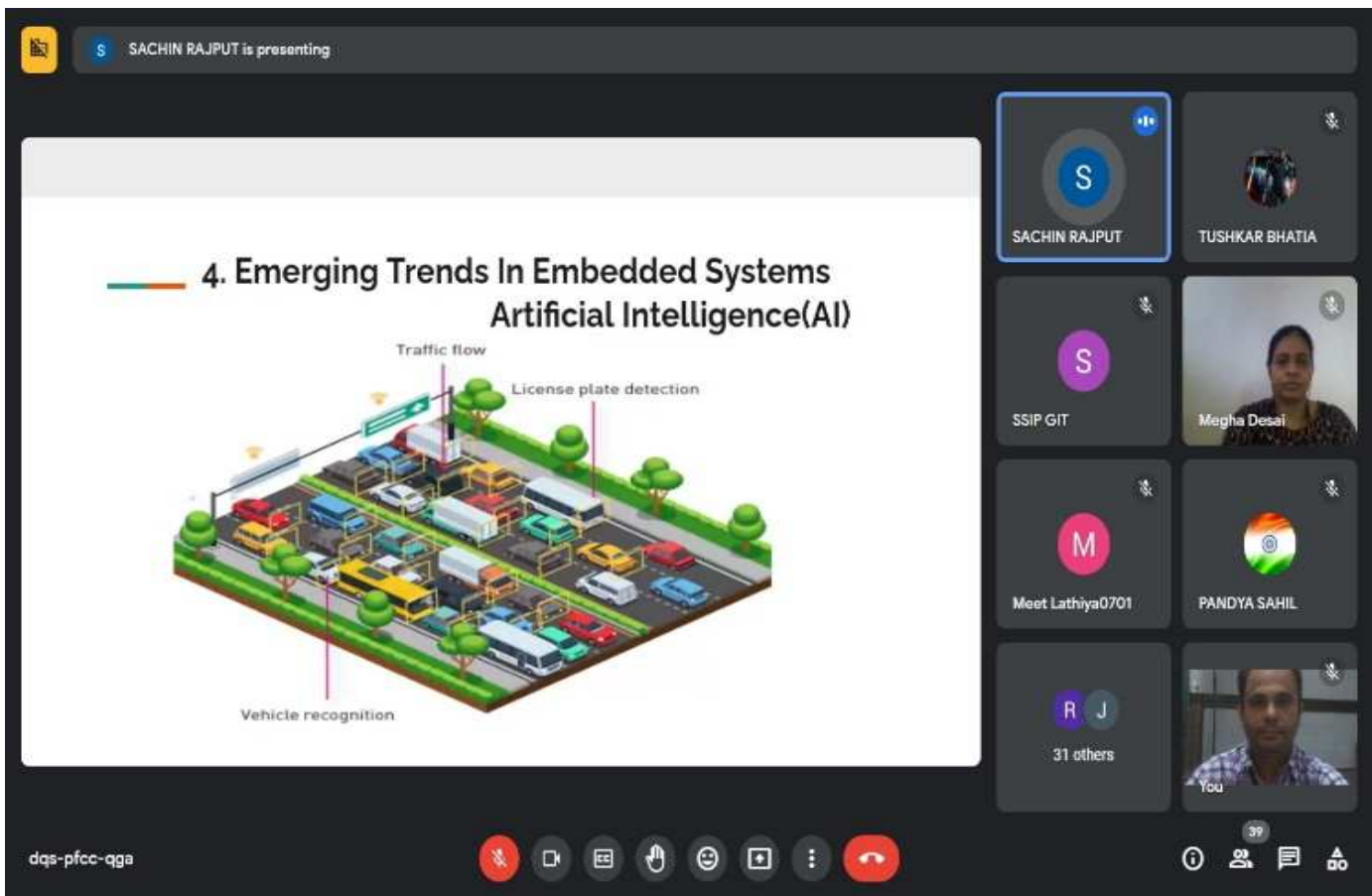
Prof. Megha Desai introducing Mr. Sachin Singh



Mr. Sachin Singh explaining about multiple option after completing the EC



Mr. Sachin Singh explaining about the IOT



Mr. Sachin Singh explaining about the AI

SACHIN RAJPUT is presenting

4. Emerging Trends In Embedded Systems

SoC

The diagram illustrates a System on Chip (SoC) architecture. At the center is a chip labeled 'Microcontroller' containing a 'CPU'. Surrounding it are various peripheral components: 'A/D Converter', 'Microprocessor', 'RAM', 'Program Memory', and 'Oscillator 0 - 40MHz'. Arrows point from these components towards the central chip, indicating their integration. Below the chip, there are labels for 'I/O Ports', 'EEPROM', and 'EEPROM'. The entire assembly is shown on a physical chip package.

10:43 AM | dqs-pfcc-qga

Activate Windows
Go to Settings to activate Windows.

Mr. Sachin Singh explaining about the SoC

SACHIN RAJPUT is presenting

4. Emerging Trends In Embedded Systems

Embedded Linux

The image shows a Raspberry Pi single-board computer. A small LCD screen is attached to the board, displaying the Linux logo (a penguin). The board is connected to various cables, including a USB cable and an Ethernet cable.

11:02 AM | dqs-pfcc-qga

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Mr. Sachin Singh explaining about the Embedded Linux