



## Program Agenda

### Faculty Workshop

## Embedded Systems - An Application-Driven Approach

**Mode of Workshop:** Virtual

**Links:** The meeting links will be sent to the email address provided during the registration process prior to the workshop

**Date:** August 25<sup>th</sup> to 27<sup>th</sup>, 2021

**Time:** 9:30 AM - 5:00 PM IST

**Participant Profile:** This workshop is for faculty members from Engineering Institutes - whether you're teaching Electronic, Electrical, Communications or Instrumentation Engineering, Computer Science, or Information Technology.

## Day 1: Embedded Systems Essentials

Date: 25-8-2021, Wednesday

S.No	Topics	Time	Speakers
1	Inauguration: Representatives from: <ul style="list-style-type: none"> <li>• AICTE</li> <li>• Arm</li> <li>• STMicroelectronics</li> </ul>	9:30 AM - 10:15 AM IST	<b>Prof. Anil Dattatraya Sahasrabudhe</b> Chairman, AICTE <b>Guru Ganesan</b> Managing Director and President, Arm India <b>Vivek Sharma</b> Managing Director, STMicroelectronics India
2	Introduction : Embedded Systems & beyond	10:15 AM - 11:00 AM IST	<b>Dr. Manoj Kumar</b> Director, System Research and Applications STMicroelectronics, India
3	Getting started with embedded essentials	11:00 AM – 11:45 AM IST	<b>Salil Jain</b> Staff Engineer, System, Research and Applications STMicroelectronics, India
4	Quiz Time	11:45 AM - 12:00 AM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
5	Evolutions in embedded platforms	12:00 AM - 1:00 PM IST	<b>Vinay Kumar Thapliyal</b> Technical Marketing Manager, Microcontrollers Division STMicroelectronics, India
6	Quiz Time	1:00 PM - 1:15 PM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
7	Arm Microcontroller Architectures	2:15 PM - 3:15 PM IST	<b>David Brooke</b> Principal Applications Engineer Arm
8	Quiz Time	3:15 PM - 3:30 PM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b>

			Operations Analyst Arm Education
9	Applications and case studies - Arm Cortex-M	3:30 PM – 4:15 PM IST	<b>Francois Botman</b> Principal Research Engineer Arm
10	Q&A Session	4:15 PM - 4:30 PM IST	<b>Vinay Kumar Thapliyal/ Sridhar Ethiraj</b> STMicroelectronics, India

**Day 2: Deep Dive into Embedded Systems**  
Date: 26-8-2021, Thursday

S.No	Topics	Time	Speakers
1	Microcontroller Peripherals: Superior and Innovative peripherals for smart applications	9:30 AM - 11:30 AM IST	<b>Amit Kumar</b> Sr. Staff Engineer, Microcontroller Division STMicroelectronics, India
2	Quiz Time	11:30 AM-11:45 AM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
3	Getting ready with your first application: Hardware and software ecosystems required for embedded systems	11:45 AM- 1:00 PM IST	<b>Krishan Solanki</b> Staff Engineer, Microcontrollers Division STMicroelectronics, India
	Lunch Break	1:00 PM - 2:00 PM IST	
	Continue with: Getting ready with your first application	2:00 PM - 2:45 PM IST	<b>Krishan Solanki</b> Staff Engineer, Microcontrollers Division STMicroelectronics, India

<b>4</b>	Quiz Time	2:45 PM - 3:00 PM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
<b>5</b>	Embedded applications : real-time case studies and demos	3:00 PM - 4:30 PM IST	<b>Alok Mittal</b> Sr. Group Manager, System, Research and Applications STMicroelectronics, India <b>Nabarun Dasgupta</b> Group Manager, System, Research and Applications STMicroelectronics, India
<b>6</b>	Q&A Session	4:30 PM - 4:45 PM IST	<b>Vinay Kumar Thapliyal/ Sridhar Ethiraj</b> STMicroelectronics, India
<b>7</b>	Idea Contest Announcement	4:45 PM - 5:00 PM IST	

## Day 3: Mastering Embedded Systems - Advancing with Technologies

Date: 27-8-2021, Friday

S.No	Topics	Time	Speakers
1	Introduction: Emerging Markets & Technologies	9:30 AM - 10:00 AM IST	<b>Vinay Kumar Thapliyal</b> Technical Marketing Manager, Microcontrollers Division STMicroelectronics, India
2	<b>IoT</b> - Introduction to IoT applications - Connectivity in IoT - Security needs in IoT	10:00 AM - 11:30 AM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India
3	Quiz Time	11:30 AM - 11:45 AM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
4	<b>HMI (Human-Machine Interface)</b> - Advanced MCUs for Graphics - TouchGFX: Advanced Graphics Tool	11:45 AM - 1:00 PM IST	<b>Shubham Boharapi</b> Tech Leader, Microcontrollers Division STMicroelectronics, India
5	Quiz Time	1:00 PM - 1:15 PM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
6	<b>Edge AI</b> - Intro to Edge AI - How to create your own Edge AI	2:15 PM - 3:45 PM IST	<b>Amit Kumar</b> Sr. Staff Engineer, Microcontroller Division STMicroelectronics, India

	application using STM32Cube.AI tool		
<b>7</b>	Quiz Time	3:45 PM - 4:00 PM IST	<b>Sridhar Ethiraj</b> Sr. Field Application Engineer, Microcontrollers Division STMicroelectronics, India <b>Suriya Gunasekaran</b> Operations Analyst Arm Education
<b>8</b>	Q&A Session	4:00 PM - 4:15 PM IST	<b>Vinay Kumar Thapliyal/ Sridhar Ethiraj</b> STMicroelectronics, India
<b>9</b>	Feedback	4:15 PM - 4:30 PM IST	<b>Suriya Gunasekaran</b> Operations Analyst Arm Education
<b>10</b>	Winners announcement and session closure	4:30 PM - 5:00 PM IST	<b>Raunaque Mujeeb Quaiser</b> Group Manager, System Research and Applications STMicroelectronics, India