

Webinar on Embedded systems

One day webinar on 'Embedded systems' was organized for the students of SY, TY and Final Year B. Tech Electronics & Communication Technology. Mr. Umesh A. Kshirsagar, Sr. Embedded systems Engineer from Elear Solutions Tech Pvt Ltd., Hyderabad conducted this webinar. In this various aspects of Embedded systems, applications of embedded systems and career opportunities in embedded systems were described by the resource person. At the end of session the question answer session was conducted in which various doubts of the students were cleared. This webinar was conducted on 12th September 2020 between 10:00 am to 01:00pm.

Webinar Link - <https://meet.google.com/nuq-moto-cfj>

Feed back / attendance link

<https://docs.google.com/forms/d/1c9VpVhmqUAFSp5Ek8XbYWFdsKkrilvCACJTLLcK6zWc/edit>

UMESH KSHIRSAGAR is presenting

madhura vadga... and 51 more

10:35 AM

Embedded Systems & Internet of Things WEBINAR

Saturday 12th September 2020
10.30 PM to 1.00 PM

Mr. Umesh Anantrao Kshirsagar
Elear Solutions Tech Pvt. Ltd.

Organized by:-
Department of Technology,

Participants: Pradnya Kamble, Prabhakar Patil, Manish Ghorpade, gaurav rahate, PK NEWS, Deepak Gupta, dhananjay sawarkar

Meeting details ^

Turn on captions

UMESH KSHIRSAGAR is presenting

10:35 AM
12/09/2020

Umesh Kshirsagar is presenting

priyanka shingare and 53 more

10:36 AM

Meet - nuq-moto-cfj

Link of the webinar - ...

You are presenting

Stop presenting

You're presenting to everyone

Mr. S.B. Chavan, gaurav rahate, Prabhakar Patil, Manish Ghorpade, PK NEWS, Deepak Gupta, dhananjay sawarkar, Prerana Rajput, Shivani Salavi

Prabhakar Patil, Manish Ghorpade, gaurav rahate, PK NEWS, Deepak Gupta, dhananjay sawarkar, Prerana Rajput

10:36 AM 12/09/2020

Katam. PATIL and 61 more

10:37 AM

Meet - nuq-moto-cfj

Umesh Kshirsagar

dhananjay sawarkar

Pradnya Kamble

Prabhakar Patil

Manish Ghorpade

gaurav rahate

PK NEWS

Deepak Gupta

Shivani Salavi

10:37 AM 12/09/2020

Umesh Ksagar webinar link - sbc x Meet - nuq-moto-cfj x UmeshKsagarWebinarLink - Goo x +

meet.google.com/nuq-moto-cfj

Sharmili Morale and 66 more 277 10:39 AM You

UMESH KSHIRSAGAR Shivani Salavi Pradnya Kamble

Prabhakar Patil Manish Ghorpade gaurav rahate

PK NEWS Deepak Gupta Arya Patil

10:39 AM 12/09/2020

Umesh Ksagar webinar link - sbc x Meet - nuq-moto-cfj x UmeshKsagarWebinarLink - Goo x +

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Nilesh Kalase and 70 more 81 10:43 AM You

UMESH KSHIRSAGAR Shivani Salavi Pradnya Kamble

Prabhakar Patil Manish Ghorpade gaurav rahate

PK NEWS Balkrishna Limaye Deepak Gupta

10:43 AM 12/09/2020

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10:46 AM

gayatri bhosale and 72 more

UMESH KSHIRSAGAR

Ashutosh Sahoo

Pradnya Kamble

Prabhakar Patil

Manish Ghorpade

gaurav rahate

PK NEWS

Balkrishna Limaye

Durga Dhavale

10:46 AM 12/09/2020

Umesh Ksagar webinar link - sbc x Meet - nuq-moto-cfj

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10:53 AM

madhuri kamble and 77 more

PK NEWS

Balkrishna Limaye

Ashutosh Sahoo

UMESH KSHIRSAGAR

Pradnya Kamble

Prabhakar Patil

Manish Ghorpade

gaurav rahate

rutuja khot

10:53 AM 12/09/2020

UMESH KSHIRSAGAR is presenting

Anand Kulkarni and 76 more

10:54 AM

What is an Embedded System?

“Any sort of device which includes a programmable computer but itself is not intended to be a general-purpose computer”

Nitesh Dubey has left the meeting

Participants: UMesh KSHIRSAGAR, Balkrishna Limaye, Ashutosh Sahoo, rutuja khot, Pradnya Kamble, Prabhakar Patil, Manish Ghorpade, gaurav rahate, RUSHIKESH GADAKH

10:54 AM 12/09/2020

UMESH KSHIRSAGAR is presenting

Shruti More and 72 more

10:58 AM

Embedded systems overview

- ❖ Computing systems are everywhere
- ❖ Most of us think of “desktop” computers
 - ❖ PC's
 - ❖ Laptops
 - ❖ Mainframes
 - ❖ Servers
- ❖ But there's another type of computing system
 - ❖ Far more common...
 - ❖ Known as embedded systems

Participants: UMesh KSHIRSAGAR, Balkrishna Limaye, Ashutosh Sahoo, rutuja khot, Pradnya Kamble, Prabhakar Patil, PK NEWS, gaurav rahate, RUSHIKESH GADAKH

10:58 AM 12/09/2020

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How Often we use?

- ❖ At an average we have atleast 10 Embedded systems around us
 - ❖ Microwave, washer, dryer, dishwasher, TV, VCR, stereo, hair dryer, coffee maker, remote control, humidifier, heater, toys, etc.
- ❖ Luxury cars have over 60 embedded processors
 - ❖ Brakes, steering, windows, locks, ignition, dashboard displays, transmission, mirrors, etc.
- ❖ Personal computers have over 10 embedded processors
 - ❖ Graphics accelerator, mouse, keyboard, hard-drive, CD-ROM, bus interface, network card, etc.

Meeting details: People (84)

- Mr. S.B. Chavan (You)
- Aakanksha Sandugade
- Abdulaziz Mulla
- Abhishek Bhagat
- Aishwarya Jaiswal
- Akanksha Jadhav
- Anand Kulkarni
- Arati Natave
- Arya Patil
- Ashutosh Kamble

11:03 AM 12/09/2020

UMESH KSHIRSAGAR is presenting

Embedded System Block Diagram

```

    graph LR
      subgraph Embedded_System [Embedded System]
        Processor[Processor]
        mem[mem]
        Control[Control (Output)]
        Observe[Observe (Input)]
        Processor --- Bus[System Bus]
        mem --- Bus
        Control --- Bus
        Observe --- Bus
      end
      Bus --- MotorLight[Motor/Light]
      Bus --- TemperatureSensor[Temperature Sensor]
  
```

Meeting details: People (86)

- Mr. S.B. Chavan (You)
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11:11 AM 12/09/2020

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❖ Types of Embedded Processors

- ❖ Computational micros (32- or 64-bit datapaths)
 - ❖ CPU of workstations, PCs, or high-end portable devices (PDAs)
 - ❖ x86, PA-RISC, PowerPC, SPARC, etc.
- ❖ Embedded general purpose micros (32-bit datapaths)
 - ❖ Designed for a wide range of embedded applications
 - ❖ Often scaled-down version of computational micros
 - ❖ ARM, PowerPC, MIPS, x86, 68K, etc.
- ❖ Microcontrollers (4-, 8-, or 16-bit datapaths)
 - ❖ Integrate processing unit, memory, I/O buses, and peripherals
 - ❖ Often low-cost, high-volume devices
- ❖ Domain-specific processors (datapath size varies greatly)
 - ❖ Designed for a particular application domain
 - ❖ Digital signal processors, multimedia processors, graphics processors, network processors, security processors, etc.

Meeting details

People (84)

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- Aishwarya Jaiswal
- Akanksha Jadhav
- Anand Kulkarni
- Arati Natave
- Ashutosh Kamble
- Ashutosh Sahoo

11:16 AM
12/09/2020

UMESH KSHIRSAGAR is presenting

Embedded Programming

- ❖ Assembly Language programming
- ❖ High Level Language programming
 - ❖ Embedded C
 - ❖ C
 - ❖ C++
 - ❖ Python
 - ❖ (Needs Cross compilation)
 - ❖ HDL

Meeting details

People (87)

Chat

You 11:17 AM
After embedded systems, IoT and Career opportunities session, at the end Question and answer session will be there. STUDENTS may ask their questions or may ask in between also Get your doubts cleared

Balkrishna Limaye 11:18 AM
Yes Sir

Abdulaziz Mulla 11:19 AM
Ok sir

Shivam Ghatage 11:19 AM
Yes sir

Rohit Bhosale 11:20 AM
Yes sir

Send a message to everyone

Meeting details

UMESH KSHIRSAGAR is presenting

copiesofstructures...zip

11:22 AM
12/09/2020