

NEWS' elite

Art of innovation

SPIDERCAM

The **Spidercam** is a system which enables film and television cameras to move both vertically and horizontally over a predetermined area. The name "Spidercam" is a trademark.



The Spidercam operates with four motorized winches positioned at each corner at the base of the covered area, each of which controls a [Kevlar](#) cable connected to a [gyro-stabilized](#) camera-carrier, or dolly. By controlling the winding and unwinding of the cables, the system allows the dolly to reach any position in the three-dimensional space. The inputs of the Spidercam "pilot" are processed by software which forwards the commands to the winches via [fiber optic](#) cables. Two of the Kevlar cables also have fiber optic cables woven into them to carry commands to the camera and the remote head, and bring the camera's high definition signal back to the control station. The remote head, which houses the camera, provides pan and tilt movement and includes the lens remote which controls focus, zoom and iris. A gyro sensor in the dolly stabilises the horizon. A specially trained Spidercam [camera operator](#) controls the camera.

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution - UGC, Govt of India)

Recognized Under 2(f) and 12(b) of UGC Act 1996

Permanently Affiliated to JNTUH,
Approved by AICTE-Accredited by
NB&NAAC with A-grade



FASCINATING FACULTY...

Renju Ranjith

1.If you could be anyone for a day who would you be and why ?

Narendra Modi. The reason is his life history and his present routine which shows his dedication to the Nation. He believes in youth power and I too believe in the same . He is a great leader and I would like to do the same.

2.What are the changes you expect in education system ?

The first and biggest problem in the present is food. Food education from primary level in school has to be introduced.The right food and the right way of eating food.Secondly, making Hindi a compulsory language and slowly eliminating English(It's a language of foreigners,not of Indians).Evaluation methods in examinations,would be the third change I expect. Agriculture should be a subject in schools and colleges.

3.What is your fashion mantra? Select your daily style.

I am slightly selective about the colour ,type and like to be different .It makes me feel distinguished. It's my unique style to carry myself with which people identify my personality.I always prefer classy and elegant style daily, which can be either in saree or in salwar-kameez.

4.You are like a role model for many of our students, your words to inspire them ?

I am greatful to all my students, who look up to me as a teacher who inspires them. 'Never try to show what you 'Are' to others, show it to yourself.Satisfy yourself,see if you are happy.Work until your innerself says -Ok! Its enough' you will find that it leads to endless efforts and many miracles.

5.What would you expect from your students in terms of understanding and improving

Understanding, I believe, if you want to relate with subject, then you have to imagine and observe. Visualization of concepts in our mind is important. Reading the related topics online to get different ideas. Utilization of time to its maximum, discussing and sharing ideas with friends and so on.

6.Besides being a lecturer what would you wish to be ?

I want to be an excellent and perfect mother.I wanted to be a farmer. Farming is our culture and I don't want to let this precious culture go from our society.After my retirement I plan to do farming and if time permits now too.



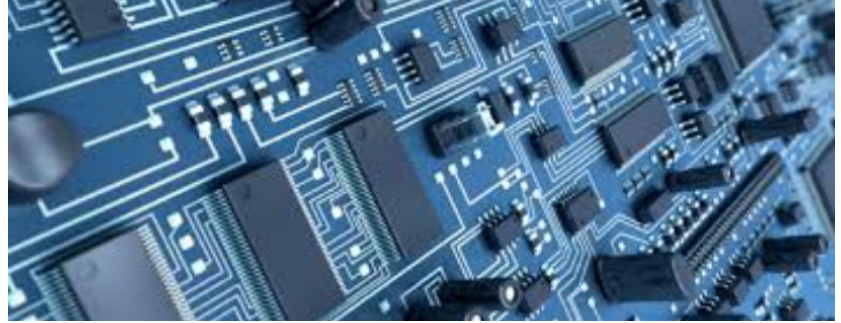
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HEALTH TIP:

Eat a basil leaf daily.

EMBEDDED SYSTEM

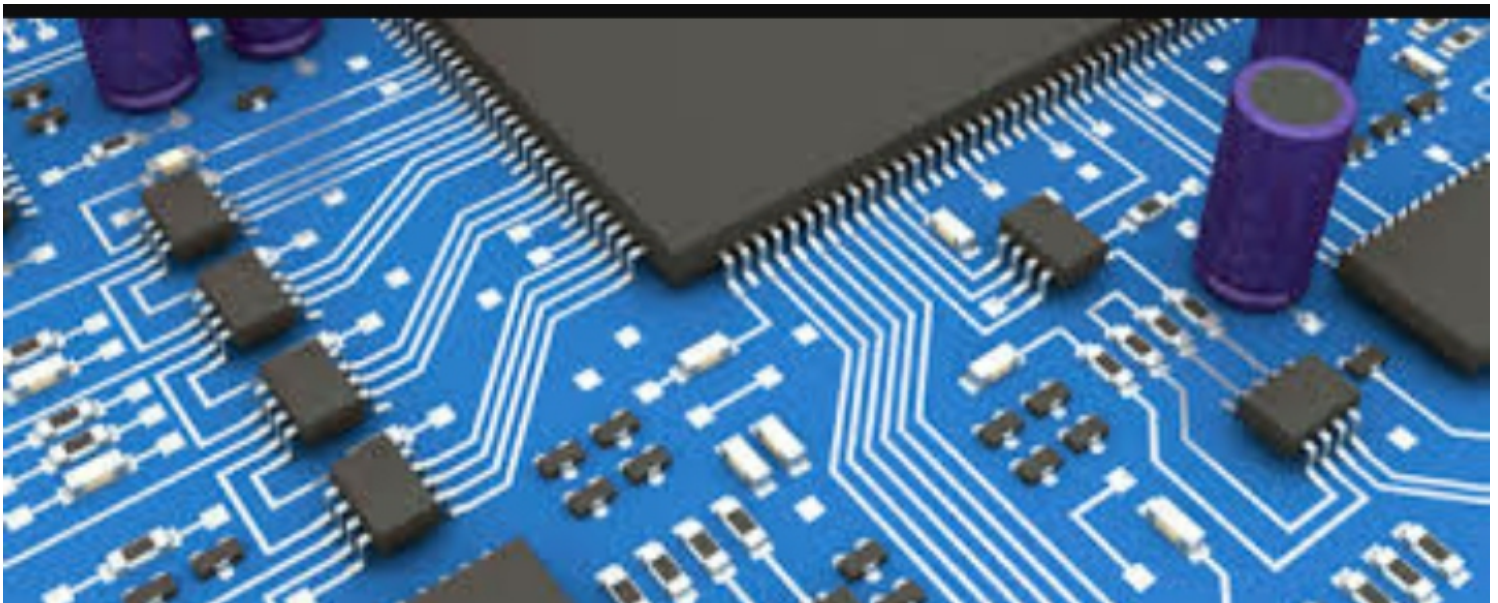
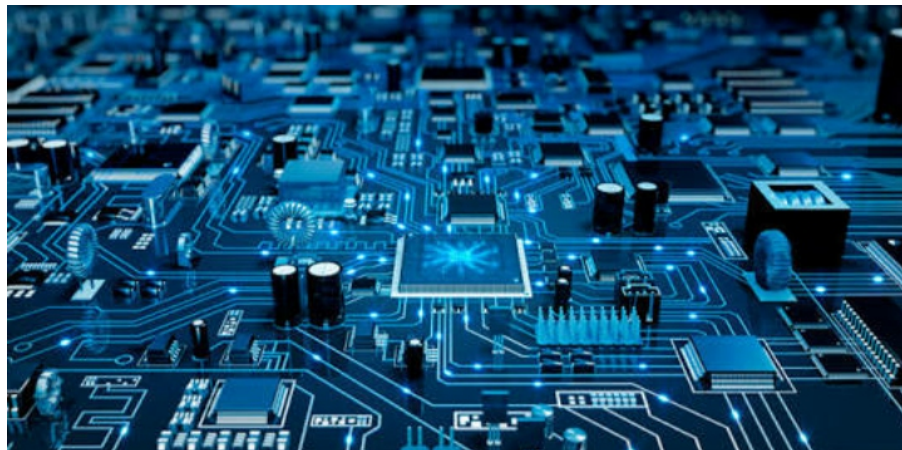
“An embedded system is a computer system with a dedicated function within a larger mechanical or electrical system, often with a real time computing constraints. It is embedded as part of a complete device often including hardware and mechanical parts embedded system controls many devices in common use today.”



ADVANCEMENT IN EMBEDDED SYSTEM:

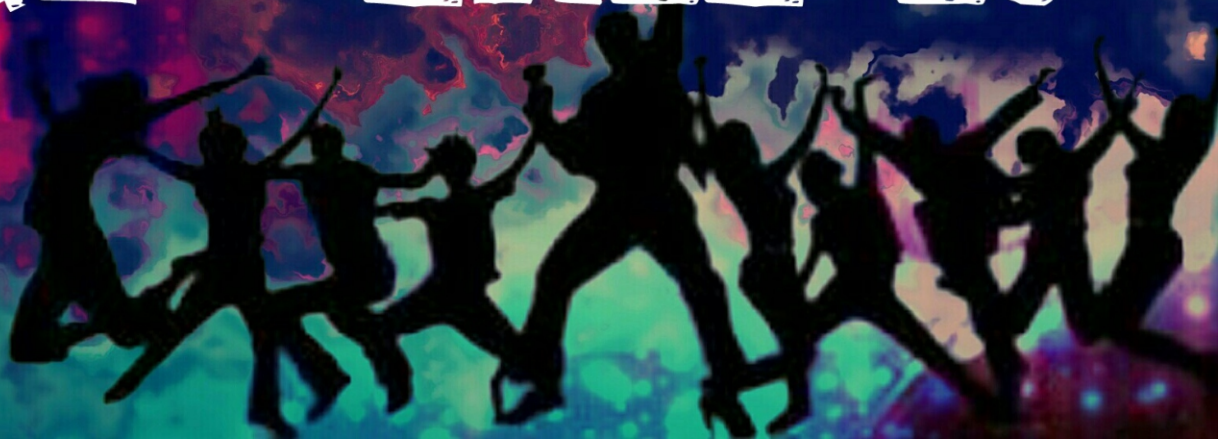
Embedded system is trending technology in the world today. The embedded system was born with the invention of microcontrollers and since then it has evolved into various forms, from primarily being designed for machine control applications to various other new vertical with the convergence of communications. Today most of the gaming consoles are multi core and so are Smartphone's, which are indeed getting 'smarter'. While this multi core paradigm offers benefits, there is also ample opportunity for the engineers to realign or relearn on this new design space – on architecture, design, and programming, debugging and testing so that they are well informed and aware about the optimal use of new power.

Embedded system as wide range of applications such as embedded digital security and surveillance, convergence embedded systems, health care , automotive , entertainment and so on .



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