TECHNOZOLA
A CSE Students Association

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News Letter

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The Official News Letter of the Department of CSE

USHA RAMA
COLLEGE OF ENGINEERING AND TECHNOLOGY

ARTICLE

TECHNOLOGY IS ALWAYS PRECIOUS FOR HUMAN LIFE

Many people say, technology has been destroying the human mechanical sequence and it raised many harmful effects.

Let us see how the implementation of technology is useful for human needs:

*Australian scientists develop incredible '10 minute' Cancer cell test:

Ground breaking research which allows for the detection of Cancer cell test in the human body in just 10 minutes has been published by Australia's university.

The study says that the simple test which uses color changing fluid to confirm the presence of cancerous cells anywhere in the body.

The test has a capacity upto 90% detection of 100 cases of cancer. The test is confirmed, when the cancer DNA and normal DNA are attached to a metallic surface in water. The cancer DNA appears in broad circular structures and the normal DNA appears as small dotted pattern.

"Intresting right ??!!"

The no-touch thermometer:

The no touch thermometer ,which was recently approved by the FDA once the devise is placed roughly on the patients foehead,it spits out a temperature in 2.5 seconds coded red, yellow, green, depending oh the reading.

BY
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Faculty Achivements

The NPTEL & IIT Madras is to enhance the quality of Engineering and Science education in the country by developing contents for undergraduate and postgraduate curricula using video and web based courses. This workshop was conducted at Gudlavalleru Engineering College on 6th December. Our college Asst.Professor of CSE Dept, R. Mercy Verginia had participated in this workshop.

A Five days faculty development program(FDP) on **Artificial Intelligence** and **Machine Learning** was organized by the department of Computer Science and Engineering, URCET in jointly organized by Electronics & Academics at IIT Roorkee, IIT Guwahati, IIITDM Jabalpur and NIT patna during 17th and 21st December2018.

ARTICLE

How does it feel like having a master chef in your house? That's a cloud nine overwhelming Joy! You can have access to all the varieties of food without exploring the world. You can even try new recipes to add into your daily cravings with ease. Oh, what a splendid Joy if everyone has that one unique food genie in their house! So our technological world complements it in technical terms to the entire world today. Why Chef restricted to food alone? We'll have many benefits indulging technical chefs into this craving world. Chef is a company and the name of a configuration management tool written in Ruby and Erlang.

Why don't we have a book of recipes? It makes cooking a cakewalk, interesting and helps us to check the amount of ingredients we add in. Okay, so who writes recipes for the Software? None can do it better other than the one who needs how it is to be done, yes, the users write "Recipes" for the Chef Software to align and configure the data and to take the optimum care about what we add in and how we add in the data, the recipes are made into a CookBook so we can access the process if we lose our train of thought about it.

The Chef Software uses a pure-Ruby, domain-specific language (DSL) for writing system configuration "recipes". Chef is used to streamline the task of configuring and maintaining a company's servers, and can integrate with cloud-based platforms such as Internap, Amazon EC2, Google Cloud Platform, Oracle Cloud, OpenStack, SoftLayer, Microsoft Azure and Rackspace to automatically holus-bolus provision and configure new machines.
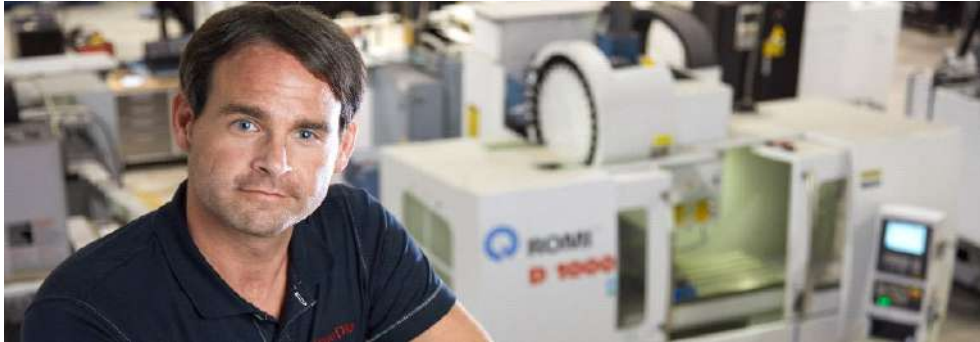
What more can you do with the Software?
→ Manage your servers by writing code, Not by running commands.
→ Integrate tightly with your applications, Databases, Leap directions, And more.
→ Easily configure applications that require knowledge about your entire infrastructure.

Chef is young, a work in progress, nonetheless, we will never get anything done if we wait for perfect conditions. It was enforced to have a better glance about the work that's productively being accomplished.

By
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17NG1A0512

ARTICLE
"Technologies for a secure future"

Brian Brown, owner and president of True Die Inc.

Revived mold and die production

"The proud and once booming trade of toolmaking has struggled to find its place in a new century. Here´s how one mold and die shop is using machine tool technology to invest in the future of its employees and grow its business"

The strategy for growth at True Die Inc., based in Zeeland, Michigan, may reflect the future of the mold and die trade itself. Tim Rietsma and his brother Mike started their mold and die shop in 2000 with a desire to continue their profession's proud heritage of skilled toolmaking. But evolving machine tool technology brought new ways of doing things, and soon the brothers faced an unexpected challenge to both their business and their ideals. The toolmaking profession had changed. Expert toolmakers were becoming scarce. While the trade had always been based on the development of skilled and well-rounded toolmakers, tech schools were beginning to turn out candidates for jobs in basic machine operation.

The owners recently changed the original name of the company, Contour Tool & Engineering, to True Die and accompanied this move with a new ownership investment, the addition of new round product toolinug capabilities, and a renewed commitment to the toolmaking trade with the aim of fully leveraging the company's heritage. For True Die's leadership team, two alternatives emerged: invest in newer basic machines that give a machine operator the ability to cut a part, or invest in more capable machine/control packages that enable employees to build their skills, their careers, and the company.

Long-term benefits

The mold and die professionals at True Die are continuing to discover useful new features of the Sinumerik 828D CNC that drives their new Romi machining center. An important discovery was the ability to program the machine to minimize the time it takes to cut a part. A feature called Advanced Surface intelligent path control enables the shop to optimize mold-cutting velocity, accuracy and surface quality for the most efficient machining motion.

By
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Gamification Workshop

On december 20th, 21st, 22nd 2018 a workshop on Gamification has been conducted by Andhra Pradesh State Skill Development Corporation in Usha Rama college of Engineering and Technology in the stream of Computer Science and Engineering.

The resource person is Mr. Abdul Aheem. It includes Buildbox curriculum which has installation and required basic settings.

Industrial Visit

An Industrial visit to "Pi Data Centre, IT Park, Autonagar – Mangalagiri, Krishna District., A.P was organized by the Computer Science and Engineering Department of Usha Rama College of Engineering on Saturday, 15th December 2018. Fifty nine Computer Science students and one faculty visited to Pi Data Centre to interact with the Data Software Industry to understand current market scenarios, latest most demanding technologies & criteria for selection etc. In this visit students were very eagerly waiting for listening to industrial higher authorities.

Some of the key points discussed during visit:
- 8 Security level for checking (fully automated).
- Total 120 servers (each one petabyte) and 200 cores of data storage.
- Each server contains 16 blades with 12 Processors.
- Data centre contains 20 chambers.(1-12 for suits , 13-16 for data ware house and 17-20 for servers)
- Discuss about transformers: captures 30000KVA.
- About cooling systems and about power data units.
- Internet Service providers (airtel, bsnl, etc..)
- Green pipes(automated smoke sensors for temperature measurement)
- Yellow colour pipes (automated gas)
- Data centre is maintaining on ring topology.
- Reasons why Pi data centre deployed at Mangalagiri.
- UPS.

Student Achievements

Congratulations

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S.V.S.D. JASWANTH

M. SRI SATYA SAI SARAN

STUDENTS RECRUITED BY

M. SRI SATYA SAI SARAN

Hackthon Competition

Vijayawada : P. B. Siddhartha College Of Arts & Sciences conducted Hackthon Competition, Using Artificial Intelligence the participants should develop Tic Tac Toe or Sudoku game. Usharama College Students got 1st Prize. The Team Members are Ch. Satish and K. Nikhil Sai.

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> "LEADERSHIP AND LEARNING ARE INDISPENSABLE TO EACH OTHER"
> — JHON F KENNEDY

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