



ZAIRZA

A monthly news letter by Zairza technical Society, CET bhubaneswar.
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Who Are We!

ZAIRZA, the technical society of CETb, is a fraternity, not just a group but a faction of students whose passions dwell in beholding wires and metal beget a machine that has a brain of its own! It's here, that seeds of lecturing are sown by those experienced and erudite, nurtured by the interested and novice, pruned by minute yet unprecedented errors and harvested in competitions all over India.

The Club offers indispensable guidance, workshops and tutorials along with tools, equipments, components and workspace. The family meets periodically to discuss over matters such as the management of the workspace, workshops, projects and competitions.

Message from the PIC, ZAIRZA

Prof. R.R.Dash



It gives me immense pleasure to introduce the first issue of Zairza Technical Society Newsletter. I would like to take this opportunity to thank the editorial team for their efforts in putting together a wonderful and informative newsletter. Notable achievements by our students, alumni have been highlighted along with the activities here at Zairza.

Being a technical club with software and robotics wing, I am proud to add another milestone to our artillery: inclusion of Automotive Wing (SAE) along with aero-modelling.

We welcome your inputs for future newsletter and urge to stay connected with us through email and social networking sites and by visiting us whenever possible.

We welcome anyone, with or without prior knowledge, who wishes to be a part of this fraternity. There are no pre-requisites to join because we have members that believe in the transfer of knowledge, especially that concerns our precious interest in technical wonders!

From The Principal's Desk..

Dr. Prof S. P. MOHANTY



It gives me an immense pleasure to cite the young minds inculcating the zeal to become technically advanced. Zairza, the technical club of college of engineering and technology has taken a giant leap in developing and broadening the technical and scientific prospective of the students of our college.

I would extend my heartfelt wishes for its success in the coming days so that it continues in moulding technical students into techno-scientific developed alumni that would help them to come out with flying colours in their future.

All the best !

Invention corner



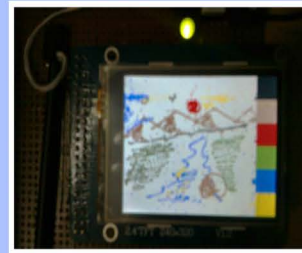
TFT paint machine

Vineet Nayak
4th Year, Elec.

Love painting? Here's something which could help you paint stuff by drawing outlines and filling in whichever colours you like. It's handy, easy to use and exciting, TFT paint machine allows you to choose your own colours on a TFT screen and use it to draw or paint on the screen. There is a stylus attached which lets you paint

The machine uses a 4" TFT touchscreen controlled by Atmega128 microcontroller. You just need to touch the stylus with the desired colour and start painting with it. It's small and can be easily carried in the pocket. It's made up of basic electronic circuits involving use of embedded system interfacing.

So painters and hobbyists, do take a note of this projects which is small and effective but a great way to express ideas.



His other Work include :-

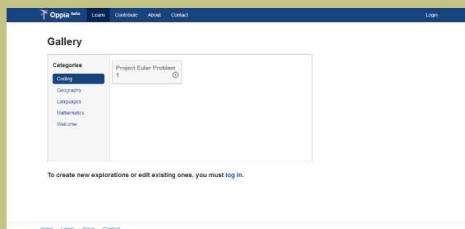
- .Article captioned "Digital drawing pad using GLCD & Touchscreen" published in Electronics For You Magazine (September 2012 issue).
- . Article captioned "RF based motion sensing Robot" published in Electronics For You Magazine (April 2013 issue).
- .Article captioned "Hand Videogame-Space Invaders" published in Electronics For You Magazine (June 2013 issue).
- .Article captioned "Solar Compass with OLED Display" published in Electronics For You Magazine (September 2013 issue).
- .Article captioned "GPS Navigator" published in Electronics For You Magazine (October 2013 issue).

Edu websites! a lot in trend now. They aim to make learning fun and interesting. Here's one such website with makes learning super-fun.

Mostly Oppia tries to simulate one-on-one interaction between a student and a teacher. The student is answered by generating an interactive pattern or pictorial representation and the student is guided step by step. These interactive educational tracks are called 'explorations'. Oppia is open to everyone to create, edit, share and play with the explorations. Oppia also provides analytical data of the responses received from students to the teachers to help them improve their respective explorations.

Oppia.com

Tarashish mishra
3rd yr, CSE



The technology stack of Oppia consists of Python, Javascript and Google AppEngine. The front-end uses AngularJS framework while the back-end is based on webapp2 and Django framework.

So next time you need an answer, don't just google..learn it the new way!!! Go Oppia!!

His other work include :-

Successfully participated in Google Summer of Code 2013.

Contributor to various Mozilla projects including Firefox, Mozillian(<http://mozillians.org>) and ReMo(<http://reps.mozilla.org>).

Maintainer of Oppia(www.oppia.org) along with several Google engineers.

Founding member of WFS-India(<http://www.wfs-india.org>), a organization that works for gender parity in software world.

What's New around the world

WIVI- See through the walls with Wi-Fi

Want X-Ray vision like the man of steel? A technology that lets you see behind walls could soon be built in your cell phones.

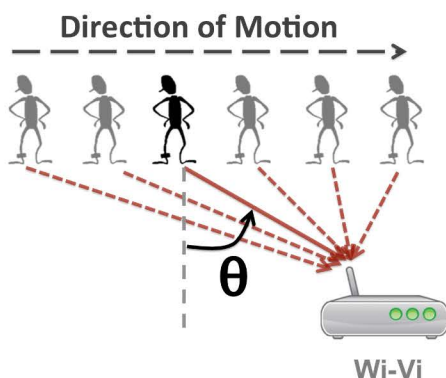
MIT professor Dina Katabi and graduate student Fadel Adib have announced WiVi, a demonstration of technology that has Wi-Fi to allow a viewer to see a person moving behind a wall.

Previous work reflected that the subtle reflection of wireless inter signals bouncing off a human could be used to track that person's movement but those previous experiments either required a wireless router was already in the room of the person being tracked or "a whole truck just to carry the radio".

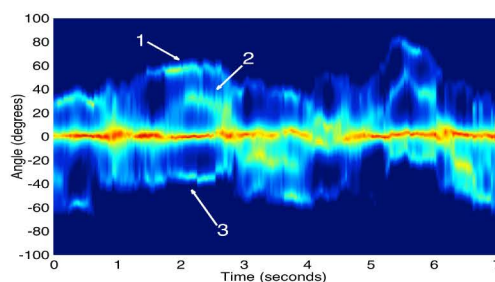


The new devices use the same wireless antenna as is found in a laptop and could be embedded with a cell phone soon.

Trick is cancelling out all the Wi-Fi signals. WiVi sends out two wireless signals which uses 'interference nulling' to remove unwanted signals. The two signals cut each other till they hit a moving object as human. This device is meant to be portable and could be used for personal safety or be helpful to various other people as the cops or detectives!!



For more information refer people.csail.mit.edu/fadel/wivi/



The Alumni's corner



Zairza was started with a motive and a dream to bring out the technically innovative skills amongst CETians. I am very glad to witness its rapidly prospering days and I wish all success for its future. Hope Its events always become a grand success and continue creating wonders in the field of innovations.

Sachin Kumar Rout
Batch of 2010
Works at ISRO, Trivandrum