

EMPLOYMENT

Developer, Assistive Technology	Insight, a project under Kerala State IT Mission & SPACE	October 2009
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Projects

inkpot

- Coded software in python & QT, which assists children with learning difficulties, to learn alphabets.
- Ported the software to a portable mobile internet device with GNU/Linux Os.

eCane

- Designed a circuit with Atmega8 microcontroller, to detect obstacles within the range 2 cm to 3 m and responds according to the distance. The detectable distance can be varied using a pot.
- The product supports the visually challenged person in navigation.

iSpeak

- Support & maintain the software in pyQT, which assists children with communication difficulties, to learn communication through pictures.
- Ported the software to a portable mobile internet device with GNU/Linux Os.

pyScanBookApp

- Coded software in python & GTK, which assists visually challenged persons, to scan, convert it to text using their favorite OCR & also read it using their favorite Text to Speech engine.

Academic projects

Govt. Engineering College

Active Noise Control

- Designed and programmed a system that contains an electro acoustic device which cancels the unwanted sound by generating an antisound of equal amplitude & opposite phase, using the DSP [TMS320C6416].

Line Following Robot

- Designed a circuit using the common IR sensors and motor driving IC's to detect black line and go through it.

Hobby projects

Token System

- Designed a circuit using the common counter IC to display a homemade 7-segment display

Digital Clock with RTC

- Designed a circuit for a 6 digit digital clock with backup battery while power off.

EDUCATION

University of Calicut	Govt. Engineering College, Kozhikode	June 2009
• Applied Electronics & Instrumentation. GPA: 62.33		
Kerala Higher Secondary Board	Govt. Model BHSS, Thiruvananthapuram	March 2004
• Science with Mathematics. GPA: 88.83		
Kerala State Board	Christ Nagar HSS, Thiruvananthapuram	March 2002
• Arts, Science & Mathematics. GPA: 87.16		
DOEACC, Calicut		September 2009
• Hardware System Design course		

HONORS AND AWARDS

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- Excellence Performance Award winner from IDB, Jeddah.
 - Co ordinator of PRINCIPIA'09, an All India Inter Collegiate Technical Festival, GEC Kozhikode.
 - State level participant (District level first) in Science & Mathematics Fair 2002.

Languages and Technologies

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- Python; C; Embedded C; Assembly; Shell Script.
 - AtmegaX, 8X5X microcontrollers; PLC, DSP.
 - Vim, Qt, Keil, Orcad.