PROFILE

Name	Hariprasad T L
Position & Affiliation	Assistant Professor, Department of CSE
Areas of Interest	VLSI
Email	hariprasad.ece@cambridge.edu.in
LinkedIn ID	https://www.linkedin.com/in/hariprasad-t-l-a010091b2
Google Scholar ID	kVhUDjIAAAAJ
Orchid ID	0009-0008-6889-3470
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Scopus ID	
Professional Webpage (if any)	

Educational Qualifications:

Ph.D	VTU(Pursuing)	India	
MTech	Sir MVIT, VTU	India	2013
BE	CITECH, VTU	India	2011

Areas of Research:

VLSI

Brief Profile: (write about yourself)

Completed MTech and PhD(Pursuing) in Electronics. Has over twelve years of, Academic and Industry Experience. The areas of interest are VLSI, Embedded system and IOT.

Project #1

Aim: Voice Controlled Wheelchair

Description: This model of a voice-controlled wheelchair based on Assistive Technology(AT) can help a disabled person lead a more comfortable and independent life. Especially, quadriplegics who lack the necessary dexterity to control a joystick on an electric wheelchair.

The methodology adopted is based on grouping a microprocessor with a speech recognition development kit for isolated word from dependent speaker. There are several physical disabilities/conditions which require the use of a wheelchair including brain injury, stroke, fractures, amputation, pulmonary disease, neurological disorders.

Implementation of GSM technology in medical applications. In case of emergencies, GSM based navigation system to track current location of user and send the information to the people concerned. Our development system offers voice recognition-based wheelchair as well as GPS tracking of patient.

Project #2

Aim: IOT Based Security system using NodeMCU

Description: The Internet of Things (IoT) helps to create safe cities, businesses, and homes by allowing both public and private organizations to remotely and securely monitor facilities and public spaces in real-time with smart surveillance and security solutions. An economical, secure, fault-tolerant and easy to install/use surveillance system has been proposed. A couple of PIR and microwave sensors are used to detect heat signatures. These sensor nodes are physically connected using Arduino Mega Board. If intrusion is detected, the Arduino Mega Board generates an alert notification and sends it to the 3G/GPRS Shield (SIM5215A) module. The first connection is made with the online server using 3G/GPRS while the second connection is made with the user's cell phone using GSM. The proposed system has been validated on a variety of test cases and produced optimal results.

Awards/Achievements/Others:

Courses Taught: Basic Electronics, M&E, Introduction to Electronics and Communication, Introduction to IOT, Python, Analog Electronics and Power Electronics

Publications/Patents:

Publications	1.Landmine Detection and Intimation System 2.Robot using GSM and GPS Technology 3.Wildlife Observation Robot using IOT *4. Attendance Monitoring System Using Facial Recognition And Biometric Charging Station Of E-Vehicles Using Solar Energy*