

## AKSHATA RANE

**Mobile:** 8767910065

**Email:** akshta.15.11@gmail.com

### PROJECT WORK

#### ***Signal conditioning voltage to frequency convertor***

The main ideology of this project is to avoid loss of energy due to loading of current. This problem occurs in many electrical circuits hence signal conditioning technique is used. In this opto-coupler is used to transfer the energy in the form of radiations. It is used in many systems as frequency to voltage converter, and vice versa.

**Scope:** Home appliances, electronics machines, etc.

**Technology:** Opto-Coupler IC , LM 555.

#### ***Infrared based car parking circuit***

The main ideology of this project is avoiding any kind of a mishap from taking place while parking a car. The infrared sensors mounted on the circuit fitted on the dashboard check the distance between the car and the obstacle. When the car goes beyond the safe distance, the buzzer fitted inside the car notifies the driver by buzzing.

**Scope:** Car parking, Distance measurement, etc.

**Technology:** LM324 IC, NE 555 timer IC

#### ***8052 Microcontroller based human detection robot***

This project is based on detecting human beings by using PIR sensors and a wireless camera. The ideology of this project is to search for a personnel stuck under debris or in the place where natural calamity has struck. The PIR sensors senses motion while the camera gives live streaming and distinguishes the condition whether genuine or fake.

**Scope:** War fields, manmade calamities, etc

**Technology:** 8052 IC, PIR sensor, 2 wheeled vehicle.

## EDUCATIONAL DETAILS

EXAMINATION	MONTH/YEAR	INSTITUTE	PERCENTAGE
SSC	MARCH/2008	Modern English School	68.00
HSC	FEB/2010	Wilson College of Science and Arts	53.50
B.E Instrumentation	MAY/2016	Watumull Institute	63.00

## INDUSTRIAL TRAINING/INTERNSHIP

Company	Duration		Experience
	From	To	
CHETAS Control System Private Limited	01/01/2014	28/01/2014	Control systems & making of control equipments in CHETAS
RCF (Rashtriya Chemical & Fertilizers Limited.)	01/07/2014	15/07/2014	Study of nitric acid plant process instrumentation & automation in RCF

## INTERNSHIP

Company	Duration		JD
	From	To	
Cactus Communication Pvt Ltd.	09/05/2017	Present	Working with the Project Management Team and handling project finances as well.

## LANGUAGES

	FULL PROFESSIONAL PROFICIENCY			ELEMENTARY PROFICIENCY
<b>SPEAK</b>	ENGLISH	MARATHI	HINDI	FRENCH
<b>READ</b>	ENGLISH	MARATHI	HINDI	FRENCH
<b>WRITE</b>	ENGLISH	MARATHI	HINDI	FRENCH

## TECHNICAL SKILLS

- Transducers, sensors & instrumentation key skills.

- AUTOCAD
- MATLAB
- MPLAB IDE
- INTOOLS
- FLASHMAGIC
- VISUAL BASICS
- DCS
- ELECTRONICS
- EMBEDDED SYSTEMS 8051
- PIC MICROCONTROLLERS
- LOGICX PRO
- Uvision 4
- Basics of PLC logic development.
- Basics known about PROTEUS , ASSEMBLY LANGUAGE , JAVA , C++ LANGUAGE.
- Basic knowledge of types of control panels.

## PERSONAL DETAILS

NAME	:	AKSHATA AVINASH RANE
ADDRESS	:	Kalpataru, Flat no.7, Narayan Pujari Nagar, A.G Khan Road, Next to China Bistro, Worli, Mumbai – 400 018.
DATE OF BIRTH	:	15 <sup>th</sup> November, 1992
HOBBIES	:	Drawing, Listening to music, Cycling, Swimming, Reading, Trekking, Craftwork, Travelling, Adventure Sports etc