

PRADEEP PASULA

STUDENT
DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING
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CAREER VISION

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity for continuous learning

RELEVANT EXPERIENCE

Computer Education Division, Electronics Corporation of India limited, Hyderabad, India
Project Associate

Prof. L. VASUDEVA MURTHY (Head, CED)

June, 2016 – Aug16

A VHDL implementation of the Advanced Encryption Standard-Rijndael Algorithm

- Advanced Encryption Standard (AES), a Federal Information Processing Standard (FIPS), is an approved cryptographic algorithm that can be used to protect electronic data.
- The AES algorithm is a block cipher that can encrypt and decrypt digital information.
- The AES algorithm is capable of using cryptographic keys of 128, 192, and 256 bits, this project implements the 128 bit standard on a Field-Programmable Gate Array (FPGA) using the VHDL, a hardware description language.

Department of Electronics Engineering, BML Munjal University, Gurgaon, India
Project Fellow

Aug, 2016 – Present

Optical Character Recognition using MATLAB

- The goal of Optical Character Recognition (OCR) is to classify optical patterns (often contained in a digital image) corresponding to alphanumeric or other characters. The process of OCR involves several steps including segmentation, feature extraction, and classification. Each of these steps is a field unto itself, and is described briefly here in the context of a matlab implementation of OCR.

TECHNICAL SKILLS

Languages

- | | | | | |
|-------------------------|--------------------|--|------|-----------------------|
| • MATLAB | (EXPERT, 2 Years) | | C | (ADVANCED, 2.5 Years) |
| • HTML, CSS, JAVASCRIPT | (MEDIUM, 6 months) | | VHDL | (FAMILIAR, 3 Months) |

Tools and Libraries

- | | | | | | | | | |
|------------------|--|-------------|--|--------------------|--|------------|--|------------------|
| • Android Studio | | Eclipse | | Dreamweaver | | Xilinx IDE | | MIT App inventor |
| AutoCAD | | Arduino ide | | Adobe Premiere pro | | | | |

Operating Systems

- | | |
|--------------------------|---------|
| • Windows - 10,7, Vista, | Linux – |
| XP | Ubuntu |

EDUCATIONAL QUALIFICATIONS

Bachelor of Technology in Electronics and Communication Engineering (CGPA - 7.2 %)

BML Munjal University

Sept 2014 – 2018

Intermediate (AP Board, Percentage – 92.8 %)

Narayana Inter College

Mar 2014

High School (AP Board, CGPA–9.2%)

Sri Chaitanya techno School

S.R Nagar

Mar 2012

PROJECTS

AUTOMATIC VOICEMAIL TRANSMISSION OVER PHONE CALL(AUTO RESPONDER)

Aug 2016 – Present

Details

Objective – Developing an app that sends voice messages to your callers, if you can't answer the phone. You can customize the message content. You can also set different messages for different occasions (at work, with friends, etc.). And also record the voice.

Role

- Developed an app that can send text messages to your callers, according to the situation set in the app.
- Added TTS (Text to speech) functionality to read out the customized message content, so the caller can hear the message.
- Platform – Linux/Windows | Tools – Eclipse/Android studio | Language – C (Started with MATLAB), JAVA

ALPHA

Aug 2015 – Present

Details

Objective – Making a mid-weight combat robot to participate in robot wars conducted across India

Role

- Team member
 - Designing the structure in AUTOCAD and selecting the compatible materials.
 - Making the designs into tangible output.
- Platform – Linux/Windows | Tools – AutoCAD

ACADEMIC PROJECTS

Virtual Mouse Using MATLAB (Guide: Ziya uddin)

- Hand gestures controls the functions of mouse pointer without incorporating the Mouse.

Micro mouse

- Constructed an autonomous robot capable of solving mazes with the help of IR sensors using ATMEGA 16 microcontroller

Line Follower

- Constructed an automatic robot capable of traversing black line on white background using microcontroller ATMEGA 16

Ethylene Sequester (Guide: Tani Agarwal)

- It's a device which keeps fruits and vegies fresh.

Power Hunters (Guide: Dr. Kalluri Vinayak)

- Designed and constructed a toy for kids under age 9. Based on super heroes

TRAININGS

ECIL (Electronics Corporation of India limited), Hyderabad

- ECIL was engaged in the Design, Development, Manufacture and Marketing of several products with emphasis on three technology lines viz. Computers, Control Systems and Communications.
Over the years, ECIL pioneered the development of various complex electronic products without any external technological help

DCM-Fenesta, Bhiwadi

- This company is in association with DCM Shri Ram with leading manufacturer of UPVC(Unplasticised Poly Vinyl Chloride) windows. Advantages of using UPVC over wooden or plastic windows is that they have high melting point and are destruction proof.

Federal Mogul, Bhiwadi:-

- The Bhiwadi plant manufactures precision powder metal (sintered) components for engines, transmissions and lubricating pump.

Surya Roshni, Bahadurgarh

- Surya Roshni Ltd. is a well renowned company which manufactures steel pipes. Various tests like Hydro pressure testing, ultrasonic testing, eddy currents, acid treatment test are done. They have different sizes of pipes ranging from 0.5 to 16 inches diameter.

Napino, IMT Manesar

- This company is leading manufacturer of Electronic products around the globe. Napino is the best manufacturer of Regulator/ Rectifier and Capacitor discharge igniters (CDI) in India.

Relaxo,Bhiwadi

- Relaxo Footwear commenced its journey with the manufacture of Hawaii slippers. Operations involved:- EVA ejection, PVC ejection

ONILINE COURSES

- 2016 - **Programming with Python for Data Science. (undergoing)** Microsoft, EDX. This course sharpen your skills in Python, the popular programming language for data science and statistics.
- 2015 - **Introduction to Linux. EDX. (completed)** This course develops a good working knowledge of Linux using both the graphical interface and command line, covering the major Linux distribution families.
- 2016 - **Introduction to Mobile App Development. IIT-Madras. (undergoing)**- This course develops a good working knowledge of Linux using both the graphical interface and command line, covering the major Linux distribution families.
- 2016 -**The Science of Happiness .EDX. (undergoing)** The first MOOC to teach positive psychology. Learn science-based principles and practices for a happy, meaningful life.

ACHIEVEMENTS & PARTICIPATION

- | | |
|---|---------|
| • Won MIT app of the month in August 2016 | Aug2016 |
| • Been awarded Raman Munjal Scholarship | Jun2014 |
| • Conducted hand's on workshop on Robotics. | Mar2016 |
| • Organized events in college | |
| • Selected as house captain in schooling | |

HOBBIES

Reading Books | Internet Surfing | Solving Puzzles | Listening to music | Watching web series

Gurgaon, HR

Date:

(Pradeep Pasula)