

SAI PADMINI VEMU

✉ paddusai24@gmail.com, ☎ +91 7569548222, +91 7780617181

.H.No22A-3-2/1.Subbramanya Nilayam, Opp. Usha Pictures, Powerpeta, Eluru-534002.

Professional Objective :

To get into a profession that is challenging , encouraging and offers great deal of exposure. I wish to contribute to the organization with hard work, sincerity, patience and dedication.

Professional Summary :

- ❖ **VIGNAN INSTITUTE OF ENGINEERING FOR WOMEN** **September 21 to Present.**
 - Role : Assistant Professor – Electronics and Communication Engineering.
 - **Responsibilities :**
 - Working as an Assistant Professor for different subjects and respective lab sessions.
 - Ratified Faculty for the Subject Electronic Devices and Circuits for the Year 2021.
 - Worked as Supporting member for Criteria 4 in NBA & present working for Criteria 2 in NAAC accreditation process.
- ❖ **SRI VASAVI COLLEGE OF ENGINEERING AND PHARMACY** **April 2021 to September 21.**
 - Role : Assistant Professor – Electronics and Communication Engineering.
 - **Responsibilities :** Worked as an Assistant Professor for different subjects and respective lab sessions.
- ❖ **SASI INSTITUTE OF TECHNOLOGY AND ENGINEERING** **February 2020 to April 2021.**
 - Role : Assistant Professor – Electronics and Communication Engineering.
 - **Responsibilities :** Worked as an Assistant Professor for different subjects and respective lab sessions.
 - **Additional Role :** Worked as a coordinator for MODROB project sanctioned lab with two different Research labs. _ National Instruments and PCB Design labs.
 - National Instrument Lab :** This lab consists of NI Engineering Laboratory Virtual Instrumentation suit which is well suitable as a engineering laboratory device. In this we used work on ELVIS II, ELVIS III, MY DAQ devices.
 - PCB Design Lab :** In this lab we used to design a layout on a blank PCB. So we used to design PCBs with different sizes.
- ❖ **CHEGG** **October 2018 to January 2020.**
 - **Role :** Subject Tutor -Electronics and Communication Engineering(E.C.E.)
 - **Responsibility :** Working as a Tutor in various subjects of ECE branch for completion of assignments given.
- ❖ **ELECTRONICS CORPORATION OF INDIA LTD (ECIL)** **August 2015 till July 2018 date.**
 - Sr. Consultant Engineer- R&D-Electronics for RID division. **Team members : 4**
 - **Role:** Research Assistant for TDC projects(Radiation Instrumentation & Detection Division).
 - **Responsibilities :** Development & modifications of respective circuit model | Design of modified circuit on ORCAD | Material management member for respective prototype PCB| Component mounting on prototype PCB | Testing |Documentation level processing for Higher Official Approval.
 - a) Projects Handled :
 - TELEPOLE.
 - NEUTRON REM.
 - SURVEY METER.
 - b) **Additional Role:** Technical Advisor for Procurement.

- **Responsibility:** Procurement of crucial Electronic Components for specific projects that are technically referable.

a) Projects Handled :


- LAUNDRY MONITORING SYSTEM.
- PORTABLE MONITORING SYSTEM.
- DOSIMETER.
- POWER SUPPLY BOARD.

❖ BHARATH DYNAMICS LIMITED (BDL)

February 2015 to March 2015.

- Role : Team Coordinator – **INVAR R & D and PRODUCTION SECTION.**
- Responsibility : Worked in QC department of ATGM receiver (R & D unit) section as a research trainee during my Graduation project in order gain Knowledge as well as experience.

Project Handled : ANTI TANK GUIDED MISSILE RECEIVER UNIT.

 **Part-Time :**

❖ **CHEGG**

October 2018 to Present.

- **Role :** Subject Matter Expert - Electronics and Communication Engineering(E.C.E.)
- **Responsibility :** Working as a Expert in various subjects of ECE branch for completion of assignments given.

Subjects and Labs Handled :



Subjects :

- ❖ Analog Electronic Circuits(for CSE).
- ❖ Digital Electronics(for CSE).
- ❖ Computer Networks.
- ❖ Electronic Measurements and Consumer Gadgets.

Labs :

- ❖ Microwave Engineering & Optical Communication Laboratory.
- ❖ Digital Signal Processing Laboratory.
- ❖ Network Theory Laboratory.

Conferences Attended & Papers Published :

-  Solid State Technology Volume: 63 Issue: 5 Publication Year: 2020
Design a Wearable IoT Devices using pressure Sensors for fall avoidance by Human Movement Monitoring system
1 T J V Subnahmanyeswara Rao, 2 Sai Padmini Vemu, 3 Dr. K.S.Balamurugan*
1,2,3 Department of Electronics and Communication Engineering, Sasi Institute of Technology and Engineering, Tadepalligudem, Tadepalligudem, Andhra Pradesh, India-534101 *profksbala@gmail.com.
-  Quality of Transmission Improvement in Underwater Wireless Sensor Nodes using Compressive Sensing. **Published in:** 2021 5th International Conference on Computing Methodologies and Communication (ICCMC).

Technical Skills :

- ❖ Basic knowledge in NI Lab View& PCB design(CADSTAR) and basics of AURDBINO interfacing.
- ❖ Fundamental Programming Skills on MATLAB.
- ❖ Schematic Design and prototype design execution in ORCAD.
- ❖ Microcontroller programming knowledge in basic Assembly Level Programming .

Technically Interested Subjects :

- ❖ Switching theory and Logic Design.
- ❖ Electronic Devices and Circuits.
- ❖ Computer Architecture and Organization.
- ❖ Micro Processor & Microcontrollers.
- ❖ Computer Networks.
- ❖ Optical Communications.

Academic Projects :

- **POST GRADUATION : LLBP AND LBP BASED SEGMENTATION APPROACHES OF DECOUS BLUR.**
Description: This process proposes a Defocus Blur method, called Local Line Binary Pattern(LLBP).The LLBP operator has a straight line shape, this will greatly assist LLBP operator in capturing the change in image intensity. The image pattern at left and right side of the centre pixel of the line are mirror because of the distribution of binary weight at left and right side are equal. The proposed sharpness metric exploits the observation that the majority local image patches in blurred regions have considerably fewer of bounds native binary patterns compared with those in sharp regions. Mistreatment this metric, beside image matting and multi scale inference , it has a tendency to obtain high-quality sharpness maps.
- **GRADUATION : INVAR MISSILE RECEIVER UNIT (ATGM RECEIVER UNIT)**
Description : The receiver unit guides the missile (9M119M) to travel in a specific direction in order to destroy the enemy target within the flight period.
- **DIPLOMA : DIGITAL LASER PRINTER,SCANNER,COPIER(Sharp's al2040CS)**
Description: It is the perfect edition to any home or any business settings. It output 16copies & 16 pages/min.

Internship Projects :

- **DOORDHARSAN – Terrestrial Broadcasting :**
Description : Analysed how the process of signalling takes place from transmitter to received sections through satellite.
- **MONOCHROME & COLOUR TEVLEVISION :**
Description : Knew the mechanism of television set in picturing the signals .

Training and Certification :

- ❖ Online Course Certification for FDP on Advanced Image Processing Techniques.
- ❖ Self-Paced Training Course Certification of MATLAB Courses :
 - MATLAB On-ramp.
 - Deep-Learning On-ramp.
 - Machine Learning On-ramp.
- ❖ Attending the SWAYAM NPTEL Courses for Power Electronics and Digital Electronics Circuits.
- ❖ Attending the National Instruments workshop conducting by IIIT Tiruchirapalli.

Academic Qualification :

Course	Institute	Board of Study	Year of Passing	Marks
M. Tech (Electronics and Communication Engineering)	AKRG College of Engineering and Technology, Nalajerla.	Jawaharlal Nehru Technological University, Kakinada, A.P.	2018	66%
B. Tech (Electronics and Communication Engineering)	Ramachandra College of Engineering Eluru .	Jawaharlal Nehru Technological University, Kakinada, A.P.	2015	72.07%
Diploma (Electronics and Communication Engineering)	Sir. C.R.R. Polytechnic, Eluru.	SBTET	2012	88.37%
S.S.C.	St. Teresas Girl High School, Eluru	Board of Secondary Education, A.P.	2009	82%

Personal Details :

Languages Spoken Fluently	:	English Telugu, Hindi.
Handset	:	7569548222, 7780617181.
References	:	Will be provided on request.

Declaration :

I solemnly declare that all the above information is correct to the best of my knowledge and belief.

Vemu Sai Padmini/-

(SAI PADMINI VEMU)