Ami Patel

📞 (313) 6827300   ✉ amipatel0792@gmail.com   👤 Permanent Resident(Green Card Holder)

📍 49638 Tottenham Lane, Macomb, MI-48044

Professional Profile

Electronics and Communication Engineer with 3 and half years of experience working with an Engineering Institute teaching students about Electronics and Electrical Concepts. Exceptional technical and leadership skills.

- Detail-oriented, results-driven professional and creative problem solver.
- Strong understanding of signal integrity concepts and issues, on-board power design, thermal management, EMI/EMC compliance, oscilloscopes and signal generators.
- Knowledge of analog and digital circuit design, microprocessors and microcontrollers.
- Able to collaborate with other engineers and individuals to define and solve development problems.

Technical Skills/Proficiencies

Proficient or familiar with a vast array of concepts, tools, technologies, and programming languages including:

Altium Designer	Power Supply	Function Generator	Image Processing
OrCAD	Proteus	MATLAB	Digital MultiMeter
SPI/I2C/UART	NI Multisim	Oscilloscope	Circuit Analysis
EAGLE	8085 Simulator	TCP/IP	
Control Theory	MATLAB/Simulink	PLC/Ladder Logic (AB RS Logix500)	

Professional Experience

S.V.I.T. Gujarat Technological University   Vasad, GJ, India
Assistant Professor (Electronics and Communication Engineering Department)   08/2016 to 11/2019

- Conducted lectures in areas of Basic Electronics.
- Performing independent research to better understand complex technical problems.
- Collaborated with professor to manage education projects from start to finish.
- Directed full classrooms of students to develop various kinds of research.
- Created lesson plans and developed instructional materials covering all required topics and learning objectives.
- Mentored graduate students in thesis research and development.
- Assigned thought-provoking projects, enticing students to find creative solutions to design engineering issues.
- Participated in faculty meetings to discuss department goals and strategy.
- Delivered training using Multisim and taught around 250 students about manufacturing PCB.

Education

Master of Engineering in Communication System Engineering   Graduated 2016
Gujarat Technological University, Sardar Vallabhbhai Patel Institute of Technology, Vasad-041   Gujarat, India

Bachelor of Engineering in Electronics & Communication Engineering   Graduated 2014
Gujarat Technological University, Sardar Vallabhbhai Patel Institute of Technology, Vasad-041   Gujarat, India

Projects

- Night Vision Motion Estimation and Notification using RaspberryPi.

Vedant Enterprises   Vadodara, GJ, India
Electronics and Communication Engineer-Student Internship   06/2013 to 05/2014

- Designed and developed a Liquid level and volume measurement of tank using ultrasonic sensor.

- Prepared daily project status updates to inform staff and document project changes.

- Worked with other engineers to meet project deadlines.

- Liquid level and volume measurement of tank using Ultrasonic sensor

Certificates

- Published a research paper in International Journal of Advanced Research in Computer and Communication Engineering entitled Night Vision Motion Estimation: A Survey, Volume 5,Issue 2,February 2016.
- Published a research paper in International Journal for Scientific Research and Development entitled Night Vision Motion Estimation and Notification using Wireless Communication.
- PLC programming using Allen Bradely RS Logix500 from Udemy .