# Nitin Nagar

Bachelors in Technology (B.Tech)
Electronics & Communication Engineering
VIT Bhopal University

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## Education

- B.Tech Electronics & Communication Core
  - 2023 - Present, VIT Bhopal University, MP
- High School Diploma
  - 10th in 2020 & 12th in 2022, Vatsalya Public School, Mandsaur, MP
- Diploma in Hindustani Carnatic Sangeet padditi, Madhyama Antim in Violin
  - 2015 - 2019, Raja Man Singh Tomar University, Gwalior

## Skills

- Internet of Things (IoT)
- Linux Administration.
- Web/App Development
- Circuits & PCB Designing
- Audio/Video Production

## Tools & Technologies

- Arduino & ESP32 based boards, Raspberry Pi, Sensors, C++.
- Debian & Arch Based Distros, bash scripting and Linux tools
- HTML, CSS, Js, React, Java, Python MongoDB
- KiCad, LTSpice Soldering, Testing, 3D printing solutions
- Photoshop, Logic Pro, DaVinci Resolve/FCP, Blender

## Projects

- Home Automation
  - Custom solution Smooth operation & monitoring of Household appliances locally and remotely
- Home Server
  - Home network capable of Data sharing and storage, local multimedia streaming, n8n based automations
- Special Purpose Drones
  - FPV to large size drones builds on, Pi/Pixhawk, APM  for efficient operation for remote monitoring, shooting etc
- Smart Surveillance System
  - A Camera Module with Raspberry pi featuring Live feed person detection, counting, tracking in public transport
- Maintenance and Wear n Tear Analysis System for Cranes
  - A Dashboard featuring real time operating parameters of cranes for predictive maintenance (Dynamic Hackathon)

## Extracurricular

- Core Team - Technical Team IEEE Student Chapter VIT Bhopal
- Core Team - Electronics Department VITronix Club VIT Bhopal
- Grand Finalist - Dynamic Hackathon conducted by i4c.
- Classical Violinist - performed in All India Classical summit Tribal Museum Bhopal (2016)

## Research and academic interests

- Signals & Systems - Multimedia Processing & Analysis of Waves and Music
- Communication Systems & Antenna Design - Antenna simulation HFSS, MATLAB
- Computer Networks Data Communication - Networking Technologies and Hardware
- VLSI Design & hardware build - interested to work in different CPU architectures & technology
- Embedded Systems and Electronics Hardware - Keen interest to develop new projects
- Ethical Hacking & PC building - Explores penetration testing, social engineering & digital forensics in Kali linux. customising and building computer systems & hardware