

# Poomachandra N Rao

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## 🎓 EDUCATION

**B.E. Electronics and Communication**  
**Grade: 8.17**  
N.M.A.M. Institute of Technology, Nitte  
2022 – 2026

**PU PCMC | Grade: 82.33%**  
Mahatma Gandhi Memorial College, Udupi  
2020 – 2022

**KSEB | Grade: 89.12%**  
BM english medium high school, parkala  
2020

## 📜 CERTIFICATES

**VLSI Digital Design - Chip Design and Verilog Programming**  
Infosys | Springboard | November 29, 2024

## 🔧 ACTIVITIES & WORKSHOPS

**Participated, State level NSS Yuvajansotsava 2024**  
27/08/2024 - 31/08/2024 | VSKU, Bellary

**Participated ,IOT workshop**  
NMAMIT, Nitte

**Participated,3D Modelling workshop**  
NMAMIT, Nitte

**Participated,Hair Donation Drive**  
NMAMIT, Nitte

## 🏠 CLUBS

**Member, Electronics Project Club (EPC)**  
12/2024 – present | NMAMIT, Nitte

**Media Head,NSS NMAMIT unit**  
08/2025 – present | NMAMIT, Nitte

**Digital Head,Aura Club**  
08/2025 – present | NMAMIT, Nitte

**Sub Core Member, Robotics Club**  
08/2024 – 08/2025 | NMAMIT, Nitte

## 🎨 HOBBIES

Photography,Editing,Yakshagana,Designing,Learning new language and Things

## 🌐 LANGUAGES

English,Kannada,Telugu,Japanese(Beginner),Hindi, Tulu ,Tamil(Beginner)

## 📋 CAREER OBJECTIVE

Aspiring Electronics and Communication engineer with a strong focus on VLSI and Embedded Systems, seeking an opportunity to leverage my knowledge and hands-on experience. With a proactive mindset, rapid learning ability and a commitment to continuous development, I aim to contribute effectively to my team and drive impactful results for my organization.

## 🔧 PROFESSIONAL EXPERIENCE

**Intern | Experimind Labs Pvt Ltd | Atal Incubation Centre, Nitte**  
06/2024 - 07/2024

- Worked with SITL, an educational tool designed for higher primary students to gain practical knowledge of electronics. Took on multiple roles, including Narrator, Media Head, and Content Creator, contributing to content development, media production, and effective knowledge delivery.

## 📄 PUBLICATIONS & PROJECTS

### Advanced Door Lock System with Facial Recognition and Remote Control:

Developed a smart door lock system using Raspberry Pi 4 with OpenCV-based facial recognition, servo motor control, and Twilio-integrated Flask web app for keyless access, SMS alerts, and remote operation.

### Weather Monitoring Dashboard (College-Funded, Ongoing):

Developed an IoT-based weather monitoring dashboard using Raspberry Pi, Python (PyQt5, Flask), and cloud integration to display real-time environmental data for permanent deployment on the NITTE campus.

### 8--Bit Sequential Counter with 7-Segment Display (Verilog):

Designed and implemented an 8-bit sequential counter in Verilog using two 4-bit counters with multiplexed 7-segment display, including clock division and simulation-based verification.

### Interactive Wedding Invitation Website (With integration of AI):

Developed a responsive wedding invitation website using HTML, CSS, and JavaScript with interactive features, 3D animated card, Firebase-based wishes section, and Google Maps integration.

## 🧠 SKILLS

**Electronic Design Tools:** - Cadence, KiCAD, LTSPICE (Beginner)

**Programming:** - C(Moderate), Verilog (Beginner)

**Microcontrollers:** Raspberrypi boards,ESP32 , 8051, Arduino Boards ,CC32200

**CAD:**Fusion360(Beginner)

## 🔑 POSITIONS OF RESPONSIBILITY

**Pronite Core Member,Incridea 25**

02/2025 | NMAMIT, Nitte

**Accomodation Core Member,Incridea 25**

02/2025 | NMAMIT, Nitte

**Volunteer, First-Year Induction Program**

30/07/2024 – 31/07/2024 | NMAMIT, Nitte

**Media Lead, Lazzerena Event**

02/2025 | Incridea 25 (National level Techno-Cultural fest) | NMAMIT, Nitte

**Executive Member, ELECSA**

2023 | NMAMIT, Nitte