A M Nakul

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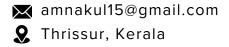
SUMMARY

Electronics and Communication Engineering student with a focus on cutting-edge IoT, embedded systems, and programming. Skilled in MATLAB, Arduino, and LTspice, with a commitment to innovative problem-solving and delivering impactful solutions. A proactive learner with a collaborative and results-driven mindset.

EDUCATION

BTech Electronics and Communications Engineering　　　　Oct 2022 - Present

Amrita Vishwa Vidyapeetham, Amritapuri Campus
CGPA: 8.89/10

Senior Secondary XII, Science - CBSE　　　　June 2020 - July 2022

St Pauls Public School Kuriachira, Thrissur, Kerala
Percentage: 86.60%

Secondary X - CBSE　　　　- 2020

Gurudeva Public School Varakkara Thrissur, Kerala
Percentage: 90%

PROJECTS

Microwave Ablation　　　　Ongoing

- Conducted in-depth research on microwave ablation technology and its application in medical treatments.

Wearable Textile Antennas　　　　November 2024

- Designed and simulated a low-profile, dual-band wearable antenna for 5G n79 (4.4 - 4.6 GHz) and ISM (5.75 - 5.85 GHz) bands using ANSYS HFSS.
- Demonstrated efficient communication with implantable and off-body antennas, suitable for healthcare and body area networks (BANs).

EEG Spectrum Analysis in Frequency Domain　　　　Jun 2024 - Jul 2024

- Investigated the correlation between brain activity and gait patterns to assess discomfort in prosthetic users by inspecting EEG signals in frequency domain in MATLAB.

SKILLS & CERTIFICATIONS

SOFT SKILLS

- Problem-solving
- Teamwork and Collaboration
- Communication

TECHNICAL SKILLS

- C Programming
- Python
- MySQL
- Analog and Digital Circuits
- Digital Signal Processing
- Internet of Things (IoT)
- VLSI Design
- Embedded Systems
- Verilog

CERTIFICATIONS

- Java Certification Course (Amrita Vishwa Vidyapeetham) - Online
- Google Cybersecurity Certification Course (Coursera) - Online

AREAS OF INTEREST

Digital Electronics, Analog Circuits, Signal Processing, Microcontrollers and Programming
Familiar PLatforms: MATLAB, ANSYS HFSS, Keil IDE, Arduino, Proteus, LTSpice, ModelSim,
Xilinx Vivado, Cadence Virtuoso

WORKSHOPS

- RoboML Workshop conducted by Amrita Vishwa Vidyapeetham
- IOT with AWS Workshop by NIT Calicut
- RISC (Research and Innovation Summer Camp) 2024 on Arduino, Python Embedded
  Systems and Robotic Programming

COMMUNITY OUTREACH PROGRAMS

Hosted an awareness campaign on the topic "Importance of Health and Well-being as
part of Student Social Responsibility Project for students of 7th and 8th standard in
a government school (SVHSS Clappana, Kollam, Kerala) empowering them with the
importance of good health and nutrition.

LANGUAGES

Malayalam, Hindi , English