Niranjan BR

Electrical and Electronics Engineering Student

 Kerala, India
 +91 9567597391
✉ niranjankannan2003@gmail.com
 niranjan-drab.vercel.app
in niranjanbr2003
 mrfox2003

Professional Summary

Final-year Electrical and Electronics Engineering student with hands-on experience in embedded systems, circuit design, and Android system development. Contributed to open-source communities as a custom ROM developer, with strong skills in debugging, scripting, and hardware integration. Passionate about learning, mentoring, and building efficient solutions that bridge hardware and software.

Experience

2025 – Present — **Operation/Media Lead, CGPC**, *GEC Idukki*
Spearheaded media and operational efforts for the college placement cell. Implemented communication strategies and organized career-focused events, increasing student participation and placements.

2025 – Present — **Chairperson, IEEE RAS SBC**, *GEC Idukki*
Led 5+ technical events, driving a 40% increase in participation.

2024 – 2025 — **Technical Coordinator, IEEE RAS SBC**, *GEC Idukki*
Organized 6+ events attended by 100+ students. Oversaw logistics and technical setups.

2021 – Present — **Custom ROM Developer**, *Voltage OS Project*
Delivered 20+ OTA builds for Qualcomm devices with 1000+ downloads. Reduced build failure rate by 30% through device tree and kernel optimizations.

Sep 2024 — **Industrial Training**, *KSEB, Koorkkenchery, Thrissur*
Completed 1-week training in substation monitoring, transmission lines, and fault handling. Observed load management and relay operations at the 110kV substation.

Jan 2023 – Jul 2023 — **Solar Technician**, *Lifestyles, Kollam*
- Installed and tested 15+ solar systems in homes and businesses.
- Achieved 98% first-time fix rate on inverter and battery setups.
- Conducted client training, improving customer satisfaction.

Aug 2022 – Jan 2023 — **Site Engineer**, *Connectline Business Solutions Pvt. Ltd, Ernakulam*
- Maintained 12+ telecom towers with 99% uptime.
- Resolved faults in under 2 hours on average, minimizing downtime.
- Ensured safety compliance and prepared technical reports.

Education

Expected 2026 — **B.Tech in Electrical and Electronics Engineering**, *Government Engineering College, Idukki*
Currently pursuing coursework with focus on embedded systems, automation, and digital electronics.

Mar 2022 — **Diploma in Electrical and Electronics Engineering**, *Sree Narayana Polytechnic College, Kollam*

Mar 2019 — **THSLC**, *Technical High School, Ezhukone, Kollam*

Certifications

Nov 2021   **Python for Data Science**, PMMMNMTT – Government of India initiative

Skills

Programming	Python, C, C++, Shell, Bash
Operating Systems	Windows Server, Linux, MacOS, WSL
Tools & Platforms	AutoCAD, MATLAB, KiCad, Microsoft 365, Git, VMware
Languages	English, Malayalam

Projects

Voltage OS	Open-source Android custom ROM focused on optimizing battery life and performance. Responsible for kernel tweaking, debugging, and building OTA packages.
Meraki	Custom Linux kernel for Android devices with enhancements in CPU scheduling, thermal profiles, and stability.
ScriptSculptor	Toolkit of Bash/Python scripts to automate ROM building, kernel setup, and environment configuration.
Arduino-Based Fire Fighting Robot	Designed RF-controlled robot with water pump for fire suppression in hazardous environments.
Dynamic Wireless EV Charging	Developing a 12V dynamic wireless charging system using resonant inductive coupling for EVs in motion.
Algae Fancy Lamp (Design Phase)	Designing a sustainable decorative lamp powered by algae bioluminescence with integrated LED support.