KARUN CHAKKI

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CAREER OBJECTIVE

B.Tech student in Bioelectronics Engineering, experienced in electronics assembly, embedded systems, and hands-on project development. Looking for opportunities to apply and grow technical skills in real-world applications such as healthcare technology, IoT, and automation. Eager to contribute to industries focused on innovation, sustainability, and interdisciplinary engineering.

EDUCATION

Bachelor of Technology in Bioelectronics Engineering   Nov 2021 – present
REVA University   Bengaluru, India
  CGPA - 8.8

Senior Secondary   Jun 2019 – May 2021
Gurukul PU College of Science   Kalaburagi, India
  Grade - 80.83%

Higher Secondary   May 2019
SBR Public School   Kalaburagi, India
  Grade - 80%

PROFESSIONAL EXPERIENCE

Project Developer Intern   Aug 2024 – May 2025
Tescom Technologies Pvt. Ltd   Bengaluru, India
- Conducted hands-on training sessions on embedded systems, electronics assembly, and IoT for over 500 students.
- Assembled and tested microcontroller-based circuits (Arduino/Raspberry Pi) for automation and sensor-based projects.
- Helped build and test prototypes in robotics and electronics.
- Developed STEM kits for schools, mentored students, and managed electronics lab tools

PROJECTS

Quantum Secure Banking: Enhancing Financial Transactions with Quantum Key Distribution (QKD)   Sep 2024 – present
Major Project
- Developed a Flask + MySQL based simulation with BB84 QKD protocol using Qiskit
- Used AES encryption to secure transaction logs and detect eavesdropping via QBER

Machine Learning Projects   May 2023 – May 2024
Mini Projects

Cardiovascular Disease Detection using ML & Image Processing
- Developed ECG-based classification models using decision trees and clustering algorithms; published in conference proceedings.

Air Quality Prediction using Decision Tree Model
- Built a machine learning model using historical air quality data; conducted feature engineering and validation.

IoT Projects   Oct 2022 – May 2023
- **Smart Pulse Oximeter** – Real-time monitoring of heart rate, temperature, and SpO2
- **Smart Stick for Blind** – Arduino-based assistive device with navigation & proximity sensing

PUBLICATIONS

Computational identification of novel Leukotriene A4 Hydrolase (LTA4H) inhibitors as therapeutic candidates for colorectal cancer   17 Mar 2025
Journal of Integrated Science and Technology

A survey on Machine Learning Methods used for Classification of Cardiovascular disease using ECG and Image Processing Techniques   23 Jul 2024
IEEE 2024 (ICECCC)

Air Quality Prediction Based on Decision Tree Using Machine Learning   07 Aug 2023
IEEE 2023 (ICSSES)

SKILLS

Technical Skills
- **Programming Languages**: Python, SQL, Perl, HTML, CSS, Java
- **Tools/Platforms**: Arduino IDE, ESP32, Raspberry Pi, Flask, MySQL, Git, Tinkercad, MATLAB
- **Core Areas**: Embedded Systems, Biomedical Instrumentation, AI/ML, IoT Systems, Cloud Basics (AWS/GCP)
- **Data Skills**: Pandas, NumPy, Excel, Data Visualization

Soft Skills
- Communication & Teamwork
- Time Management & Adaptability
- Analytical Thinking
- Documentation & Research

CERTIFICATES

Bioinformatics With Python — Udemy

Medical Signal Processing and Bioinformatics — IEEE SPS SBC

Fundamentals of LabVIEW — VI Solutions, Bengaluru

Android 14 & Kotlin Development Masterclass — Udemy

LANGUAGES

- English
- Kannada
- Hindi

INTERESTS

- Healthcare Technology Innovation
- IoT and Embedded Systems
- AI in Biomedical Applications
- Travel & Team-based Activities
- Research and Development

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge.