

# ALEX CHERIAN

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## ACADEMIC QUALIFICATIONS

### **Fr. C. Rodrigues Institute of Technology**

Bachelor of Engineering in Electronics and Telecommunications

Cumulative GPA: 6.66

### **HSC SIES College of Science, Arts & Commerce**

Score: 85.33%

### **SSC Our Lady of Perpetual Succor High School**

Score: 71.80%

Vashi, Navi Mumbai

**June 2025**

Sion, Mumbai

**Jul 2020- Jul 2021**

Chembur, Mumbai

**Jul 2018- Jul 2019**

## PROFESSIONAL EXPERIENCE

### **TEST ENGINEER | MARQUIS TECHNOLOGIES PVT LTD**

Millenium Business Park, Navi Mumbai

**Jun 2025 – Present**

- Conducted comprehensive device validation covering radio access technologies (VoLTE-SRVCC, VoWiFi, DSDS, Network Performance) and modem functionality using analysis tools.
- Performed system-level feature testing including Android 14 enhancements, RCS, thermal behavior, battery performance, sensor calibration, and facial recognition authentication.
- Evaluated multimedia and UI performance through rigorous camera functional/image quality tests, Bluetooth/Wi-Fi interop, Maps & Navigation, and Top 25 Apps compliance checks

### **IOT SYSTEMS DEVELOPER | ACMEGRADE Pvt Ltd**

Online

**Apr 2023 - Jun 2023**

- Architected 8-sensor network achieving 97% uptime through optimized power management
- Engineered ESP32 firmware reducing transmission overhead by 35% via data compression
- Resolved 12 critical connectivity issues through systematic validation
- Cut QA cycle time by 40% through automated device testing and system integration.

## PROJECTS

### **AI-BASED PERSONALIZED MUSIC THERAPY RECOMMENDER SYSTEM | B.E. MAJOR PROJECT**

**Jul 2024 - May 2025**

- Employed smartwatch data (BPM, SpO<sub>2</sub>, stress) for real-time emotion-based music recommendations.
- Used ML models to classify emotions from physiological signals and TIPI-based psychological inputs.
- Built a Streamlit dashboard to visualize 15+ emotional and health metrics with interactive controls.
- Implemented adaptive feedback to personalize recommendations based on user emotion shifts.

## CERTIFICATIONS

Python for Data Science & Machine Learning A-Z | Udemy

## SKILLS

### **TECHNICAL COMPETENCIES:**

- Programming: Python (NumPy, Pandas, TensorFlow), C/C++ for embedded systems
- Hardware: Arduino/ESP32, sensors (GSR, MAX30102, SpO<sub>2</sub>), I2C/SPI interfaces
- System Design: MQTT/HTTP protocols, embedded firmware, real-time processing
- Tools: Streamlit dashboards, LaTeX, ML implementations, Bug to Go Application

### **PROFESSIONAL SKILLS:**

- Project Management: Requirements analysis, documentation, cross-functional teamwork
- Technical Leadership: Problem resolution, resource optimization, workflow adaptation
- Communication: Stakeholder engagement, technical presentations, team coordination

## ACHIEVEMENTS

- FCRIT Football Men's Team | Thane-Zonal Level Championship: 2023 First Place, 2024 First Runner Up