Muhammed Mishal

B-tech, Electronics and Communication Engineer

Contact

Phone

+91 96450 23010

Email

mishalp789@gmail.com

Address

Pallathil House, Deverkovil,
Kuttiady Via, Kozhikode
Kerala-675308

Skills

- **Digital Design:** Verilog, Vivado
- **Programming:** C, C++, Python
- **Tools:** MATLAB, Icarus Verilog, GTKWave, Git
- **Frontend:** HTML, CSS, JavaScript
- **Embedded:** Arduino, RFID, Raspberry Pi

Certifications

- Fundamentals of MATLAB - MATLAB
- Python Fundamentals by Microsoft
- Analog and Digital IC Design by IEEE CASS (micro - course)

Leadership & Roles

- Vice Chair, IEEE Computer Society – GEC Kozhikode (2023–24)
- Program Team Member, IEEE RAS – Kerala Section (2023–24)
- Campus Ambassador, IEEEXtreme 18.0
- Magazine Editor, College Union (2023–24)

Soft Skills

- Team collaboration
- Fast learner
- Communication skills
- Adaptability

Career Objective

Motivated engineering student with a foundation in digital design and software engineering. Seeking opportunities to apply my technical and collaborative skills in a dynamic, innovation-driven environment

Education

Government Engineering College, Kozhikode,Kerala
Bachelor of Technology: Electronics and Communication Engineering (2021-2025)
CGPA - 7.72

A J John Memorial Higher Secondary School, Chattanghottunada, Kerala
Higher Secondary Education (Graduated in 2020)
Percentage – 92.25% (12th Grade)

Sirajul Huda English Medium School, Kuttiady, Kerala
High School (Graduated in 2018)
Percentage – 86.6% (10th Grade)

Projects

Major Project: Cosine Modulated Filter Bank Simulation
Tools: Verilog, Vivado, MATLAB

- Simulated a Cosine Modulated Filter Bank (CMFB) with 32-tap FIR filters, each having 460 coefficients, using Verilog in Vivado.
- Focused on RTL design, module hierarchy, and signal decomposition for multirate systems.
- Verified functionality using testbenches and waveform analysis, showcasing digital design and simulation skills.

Mini Project: Smart Library Management System using RFID
Tools: Arduino, RFID, Python Flask, HTML/CSS/JS

- Built an embedded system integrating RFID-based book tracking with a Flask web interface.
- Interfaced Arduino with Python via serial communication for real-time issue/return handling.
- Developed a responsive frontend and demonstrated hardware-software integration for automation use-cases.
- **GitHub:** github.com/mishalp789/smart-library-rfid

AlgoVault – DSA Tracker with Dashboard and CSV Export
Tools: Python Flask, SQLite, HTML/CSS/JS, Chart.js

- Developed a full-stack platform to track progress across key DSA topics.
- Enabled CRUD operations, user authentication, dynamic charts, and CSV report export.
- Practiced modular code design, testing, and deployment — demonstrating strong software engineering fundamentals.
- Enabled tracking of 75+ DSA problems across 5 major categories, improving personal prep efficiency by 60%
- GitHub: github.com/mishalp789/algo-vault