



THARANITHARAN S

ASPIRING VLSI ENGINEER & AUTHOR

CONTACT

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Nilakottai(TK), Dindigul(DT),
624206.

EDUCATION

2017 - 2024

**ST. MARY'S HR.SEC.SCHOOL,
DINDIGUL**

- SSLC : 82.20 %
- HSE : 83.67 %

2025 - 2028

**KANGEYAM INSTITUTE OF
TECHNOLOGY (KIT), TIRUPUR**

- B.E. Electronics and Communication Engineering
- CGPA : 8.20

SKILLS

- **Programming Languages:** Python (Intermediate), JavaScript (ES6+), C++, C
- **Tools & Platforms:** Git, GitHub, VS Code, Linux (Basics).
- **Core Competencies:** Data Structures, Algorithms, Object-Oriented Programming (OOP), Digital Logic Design.

LANGUAGES

- English (Intermediate-level, Fluent)
- Japanese (Basic, Can be understood)
- Tamil (Native)
- Hindi (Basic)

PROFILE

ECE Student specializing in Wireless Communications | Exploring RF, 5G, and Satellite Communications

Disciplined Electronics and Communication Engineering (ECE) undergraduate with a strong foundation in Python and Web Technologies. Passionate about bridging hardware logic with software solutions. Seeking a Web Development Internship to apply algorithmic thinking and full-stack skills to build efficient, scalable web applications.

DESCRIPTION

MATLAB

3D Mathematical Visualization Engine

- Engineered a lightweight 3D rendering script in Python to visualize mathematical topology (Torus) using ASCII characters in the terminal.
- Implemented complex trigonometric projection logic and matrix multiplication to handle real-time rotation and shading without external graphics libraries
- Optimized code efficiency, demonstrating deep understanding of coordinate systems and algorithmic performance..

CO CURRICULAR ACTIVITIES

ECE CORE

- Currently serving as Vice President of the Sensor Fusion Club, the official IoT-focused technical club of the institution.
- Promote interdisciplinary learning by integrating electronics, communication systems, and software fundamentals.

SOFT SKILLS & EXTRA CURRICULARS

- Authored a non-fiction manuscript exploring human psychology and philosophy, demonstrating strong written communication and research skills.
- Self-Managed the end-to-end creative process, maintaining a consistent writing schedule alongside engineering coursework.

REFERENCES

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https://www.instagram.com/maanavan_magizvurugiraan_319/

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https://www.youtube.com/@Maanavan_Magizvurugiraan/videos