

Sakthivel K

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EDUCATION

Prince Shri Venkateshwara Padmavathy Engineering College

Chennai, India

B.E. in Electronics & Communication Engineering; CGPA: 9.00

November 2022-May 2026

Indian Institute of Technology Madras

Chennai, India

Bachelor of Science in Electronic Systems; CGPA: 7.91

September 2023- Ongoing

SKILLS SUMMARY

- **Languages:** Python, C, C++, JAVA, Embedded C
- **Problem Solving:** Leetcode (<https://leetcode.com/u/zPGgDcMvJL/>);
Hackerrank (<https://www.hackerrank.com/profile/sakthivel062005>);
Codechef (https://www.codechef.com/users/sakthi_krish06)
- **HDL:** Verilog, System Verilog
- **OS:** Linux, Windows
- **Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib, OpenCV
- **Tools:** Excel, Word, PowerPoint, Cadence Incisive/SimVision, MATLAB, Logic Analyzer
- **Platform:** PyCharm, Visual Studio Code, DevC++, IntelliJ IDEA, Eclipse IDE
- **Soft Skills:** People Management, Excellent Communication

WORK EXPERIENCE

VLSI-DESIGN AND VERIFICATION INTERN | Tessolve | Certificate

July 2024 – November 2024

- Developed testbenches and simulation environments for hardware IP verification.
- Performed regression testing and analysed results to ensure adherence to specifications.
- Collaborated with design engineers to identify and resolve critical issues in the verification

PROJECTS

Processor ALU Design

- Designed and implemented a System Verilog-based constraint verification environment.
- Created functional and code coverage metrics to ensure the design met the required specifications.
- Debugged and resolved simulation mismatches.

Miscellaneous Projects

- Developed a HTML login page using HTML and CSS.
- Designed and constructed prototypes using Arduino during 1st and 2nd years in college.
- Developed and constructed a smart solar tracking project under IITM's LEAP team.

CERTIFICATIONS

- IITM BS Degree Foundational Level Completion
- Java for Beginners: Certified completion of foundational Java programming.
- HTML and CSS: Gained expertise in web development basics.
- Qualified for the prefinals in the AI Odyssey 1.0 event.
- **Introduction to AI:** Completed foundational course on Artificial Intelligence principles.
- NPTEL Certifications:
 - Design Thinking: A Primer (Achieved 82%)
 - Introduction to Research (Achieved 69%)