Vaishakh V

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Bangalore -560016, Karnataka

Career Objective

To obtain a position as a Physical Design Engineer. I wish to work in a dynamic organization that will contribute to my professional and personal growth also while I work hard and engage in opportunities to achieve the company's goals.

Core Competancy

- Familiar with Synopsys ICC2 Tool.
- Familiar with ASIC flow design.
- Have Hands on experience in Floor planning, Power Planning, Placement, CTS, Routing, STA .
- Have theoretical knowledge on digital electronics, CMOS design, and IC fabrication.

Education Details

Advanced Diploma in ASIC Design **2023**

RV-VLSI Design Center

Bachelor Degree in **Electronics and Communication** **2022**

Brindavan College Of Engineering, with 7 CGPA

2018

New Baldwin International College, with 71 %

SSLC **2016**

New Baldwin International School, with 73 %

Domain Specific Project

RV-VLSI and Embedded System Design Center

Graduate Trainee Engineer Nov-2022 to Feb-2023

Lakshya

Description

Designing Lakshya's Setup, Floorplan, Placement, CTS, Routing, Sign-Off Analyzing the QoR Reports and other reports of every stage

Tools

Synopsys IC Compiler II

Challenges

- High IR Drops was analyzed so adjusting the size of the metal layers and repositioning of macro cells were done.
- High number of overflows between the macro cell was observed so giving the required amount spacing between them and adding of buffers/inverters reduced it.
- Noticed many overlapping's of vias, floating wires, overlapping of metal layers so by re-positioning and removing them reduced the amount of DRC errors.
- Noticed Legalization of the std cells failed so edited a part in the script that created the row straps and it succeeded during the re-run.

B.E / B.Tech Academic Project

Brindavan College Of Engineering

Wireless AI-Based Mobile Robot for Multi-Specialty Operations

Description

1)Image and Object Classification 2)Object Detection and Tracking 3)Gesture Controls 4)Human Following

Tools

Hardware Used :- 1)Robot Chassis 2)DC Motor 3)Power Bank 4)9V Lithium-ion Battery 5)Ultrasonic Sensor 6)L293D Motor Driver 7)Raspberry Pi 4B 8)Raspberry Pi Camera
Softwares Used :- Raspberry Pi OS, Apache Webserver, PHP, Coral , TensorFlow Li

Challenges

- 1) Maintaining the weight of the robot 2)loose connections due to the usage of breadboard 3)Reduce the amount of heat coming from the Raspberry PI during long-term use