Rohith Dutta

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Hassan-573201, Karnataka

Career Objective

A passionate and recent learner of physical design. Eager to use the skills in development and design. Seeking growth and opportunities with strong work ethics and positive attitude.

Core Competancy

- Knowledge on the the ASIC design flow.
- Hands on experience on the placing and spacing of the macros.
- Practical knowledge on the Synopsys IC Compiler.
- Practical knowledge on the routing nets.
- Knowledge of static timing analysis.
- Hands on experience in the prime time .
- Practical grip on Linux commands, TCL scripting , Shell scripting
- Hands on experience on reducing the global route congestions .
- Knowledge of CMOS technology

Education Details

Advanced Diploma in ASIC Design   **2023**

RV-VLSI Design Center

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

JSS Academy of Technical Education, with 6.5 CGPA

    2018

Rajeev Polytechnic, with 70 %

SSLC   **2015**

C . K . S English School, with 67.84 %

Domain Specific Project

RV-SKILLS

Graduate Trainee Engineer   Oct-2022 to Feb-2023

Block level design using 40nm

Description

> Implementations of 40nm design: Clock Frequency - 833 MHz, Shape - Rectilinear, Macro Count - 34, Standard Cell Count - 39000 , Area - 4.2 sq.mm, Supply Voltage - 1.1V, Power Budget- 600mWatts, IR Drop Budget - 55mV and Metal Layers - 7.

Tools

> Synopsys IC-Compiler , prime time

Challenges

- Macros placement using the flyline analysis.
- Placement of row straps in order to reduce the IR drop [Pitch , Offset , Spacing]
- Analyzing the timing reports and normalizing the skew and slack violations

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B.E / B.Tech Academic Project

JSS Academy of Technical Education

DEEP LEARNING BASED INVENTORY OF AGRICULTURE CROP AND ORGANIZED YIELD PREDICTION USING SATELLITE IMAGES

Description

> In this project, we provided a brief introduction to the research works which are applied in the agriculture domain for variety recognition, yield estimation, quality detection, crop mapping, organized production, and other tasks.

Tools

> Hardware- PC with intel i5,8GB RAM , 128GB ROM. Software - windows 7, colab , Bhuvan portal.

Challenges

- Getting the real time photos and Categorizing the crops . Estimating the duration of the yields based on satellite photos.