Mohammed Faizuddin

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GULBARGA-585104, Karnataka

Career Objective

To obtain a carrier in semiconductor industry as a Physical Design Engineer where can contribute my skills for the organization's success and improving my technical ability.

Core Competancy

- Familiar with the ASIC design flow
- Have knowledge on CMOS theory, Logic design and Linux
- Hands on experience on Physical design for 40nm technologies using Synopsys PT shell and Synopsys IC Compiler
- Worked on Physical Design stages like Floor Planning, Power Planning, Placement, IR drop, CTS, STA, Routing
- Perform block level implementation using place and route technique
- Analyzing the clock slews and skews and optimizing the clock tree for maintaining the skew and slew limits
- Analyzing and fixing the DRC and LVS issues
- Knowledge on TCL scripting language
- Analyzed timing for the blocks and fixed the timing violations for setup and hold
- Analyzing and fixing the congestion

Education Details

Advanced Diploma in ASIC Design **2022**

RV-VLSI Design Center

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

Sharnbasva University , with 8.28 CGPA

2018

Al-Sharay PU College , with 71.8 %

SSLC **2016**

Tiny Pearls School , with 79.84 %

Domain Specific Project

RV-SKILLS For Emerging Technology

Graduate Trainee Engineer Oct-2022 to Feb-2023

Block Level Of Automatic Placement And Route Flow

Description

Block Level Implementation in 40nm technology with 38 Macros, Operating Frequency of 833 MHz, 7 Metal layers, 1.1v Voltage and IR drop of 5% of operating voltage.

Tools

Synopsys Primetime, Synopsys IC Compiler

Challenges

- Providing the proper space, width and pitch for metal layers to get the IR drop and met the DRC.
- Timing related issues related for the setup and hold violations where timing is not met.
- If the design is having congestion issues then it is difficult to route the design.

B.E / B.Tech Academic Project

Sharnbasva University

Seed Sowing Robot

Description

Good assistance for farmers. We can sow the seed in desired position.. Save labor cost and time. Operable form longer distance. Fully Controlled from mobile application name Blynk Iot.

Tools

Software Used - Arduino IDE Hardware Used - ESP 32 Wi-Fi Module, Arduino UNO R3, Servo Motor , L293D IC (DC Motor Driver), DC Motor, Voltage Regulator , 12V 10A battery , Digger, Seed dispenser

Challenges

- The battery was draining very fast ,A good network connection must