Ganesh Pavan Kumar Mudigonda

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Vishakhapatnam-530013, Andra Pradesh

Career Objective

Seeking for a challenging position to utilize my skills & abilities in an organization that offers professional growth while being resourceful, innovative & flexible.

Core Competancy

- Comprehensive knowledge of ASIC flow.
- Good understanding in PD flow (Floor Planning, Placement, CTS, Routing, APR, DRC & DFM).
- Skilled in implementing ASIC Flow (GDSii) at block level with critical power, area and timing budgets.
- Skilled in designing floor-plan with high macro count & power-planned with strict IR drops.
- Comprehensive knowledge of understanding & resolving timing violations of various timing paths (STA).
- Working knowledge on LINUX.
- Scripting languages : TCL, Perl.
- Tools used : Synopsys ICC, Primetime (PT).

Education Details

Advanced Diploma in ASIC Design **2023**

RV-VLSI Design Center

Bachelor Degree in **Electrical and Electronics** **2021**

GVP College Of Engineering (A), with 6.7 CGPA

2016

Sree Kashyap Jr. College, with 92.3 %

SSLC **2014**

Dr. KKR's GOWTHAM INTL. SCHOOL, with 8.8 %

Domain Specific Project

RV-VLSI and Embedded Systems Design Center

Graduate Trainee Engineer Oct-2022 to Jan-2023

Physical Design Of ASIC chip using 40nm tech

Description

Block level Implementation on Physical Design of SOC using 40 nm tech., at 833MHz and operating Voltage of 1.1V.

Tools

PT-SHELL, ICC2-SHELL

Challenges

- meeting of desired IR drop during Floor Plan.
- minimization of Global Routing Congestion during Placement.
- meeting of Hold timing during CTS.
- Antenna violations at Routing & Fixing of DRC errors at every stage.

B.E / B.Tech Academic Project

GVP College Of Engineering (A)

Bidirectional control of DC Motor

Description

The Bidirectional control of DC motor is done using the circuit designed By IGBT & it's operation is done using PWM technique. The PWM signal is generated using matlab simulation.

Tools

Matlab Simulink software.

Challenges

- Achieving smooth variation in input voltage of DC motor. Avoiding current surges & losses during the change in direction of DC motor.