Pooja P N

Mobile: +91-6362298685

Email: poojapnammu@gmail.com

LinkedIn id: linkedin.com/in/pooja-p-n-73536b25a

Professional Goals

To build a career in VLSI domain by working in an organization where my ability and skills will be utilized effectively for the betterment of myself and the Organization

Core Competency

- Trained in Sanity Check, Floorplan, Power plan, Placement, CTS, and Routing
- Good knowledge and understanding of STA concepts: Fixing setup and hold violations, understanding of timing reports, CRPR, effect of skew on timing, OCV, latch concepts
- Hands on experience on VLSI tools: ICC COMPILER
- Good Understanding of Digital Logic Design, CMOS fundamentals Good
- knowledge on Unix/Linux –TCLfundamentals/scripting basic experience
- Verilog programming and Test-bench based Verification Basic knowledge
- on IC fabrication process
- Understanding of complete ASIC design flow and Physical Design flow

Academic History

Advanced Diploma in ASIC Design - Physical Design, Takshila Institute of VLSI Technologies, Bangalore (December 2022)

Bachelor Degree in Electronics and Communication, Government Engineering College K R Pete9Mandya), Visvesvaraya Technological University (2018 –2022) (8.45 CGPA)

Pre-University PCMB, Govt PU College Didaga, Karnataka PU board (2016-2018) (79%)

Secondary School Leaving Certification (SSLC), Govt High School Didaga, KSEEB (2016) (84.32%)

Domain Specific Projects

Takshila Institute of VLSI design, VLSI Design Centre, Bangalore.

Physical Design Trainee

1) SOC Block level Implementation of ORCA_TOP_IO Project (28nm Technology node)

Tool: ICC2 compiler by Synopsys

Description:

Currently working on SOC Block level Physical design which involves implementation of

- Sanity Check, Design setup, Floorplaning
- Power planning, Placement and clock tree synthesis
- Routing, Physical Verification DRC, LVS, and DFM checks
- Signal Integrity and Back Annotation
- Sign-off checks and Tapeout

2) SOC Block level Implementation of ORCA_TOP Project (32nm Technology node)

Tool: ICC2 compiler by Synopsys

Description:

Completed SOC Block level Physical design which involves implementation of

- Sanity Check, Design setup, Iterative Floorplaning , Power planning, Place and CTS optimisation
- Routing, Physical Verification , DRC, LVS, and DFM
- checks Signal Integrity and Back Annotation
- Timing Closure and ECO Sign-off checks and Tapeout,

3) Static Time analysis

Description:

Complete analysis of different types of timing paths by using slew and delay tables for single clock & Multicycle clock by considering constraints such as clock skew, uncertainty, input delay and output delay and derate factors.

Challenges:

- Computing setup slack and hold slack for different timing paths by using skew and delay tables finding worst slack and best slack for setup and hold
- Understanding the causes for setup violation and hold violation
- Generating and analyzing timing reports in PT shell for the given timing paths
- Understanding of clock abnormalities and timing exceptions
- Understanding of derate factors, PVT corners, Global variations, OCV and AOCV

Academic Project

- Title: Brain tumor separation from a brain tumor image using Python
- Tool: Anacoda software in Spyder 3.0
- Role: Team Lead – Responsible for simulation part.

Skills

- Logic Design Physical Design
  - Sanity Checks
  - Floorplan & Power plan
  - P&R
  - DRC
- Static Timing Analysis
- Linux,TCL Scripting Fundamentals
- Synopsys IC Compiler (ICC)

Personal Details

Date of Birth	: 22/11/2000
Address	: PoojaP N d/o Nataraju P R , Village: Pura Tq: C R Pattana Dist: Hassan Karnatak 573141.
Languages Known	: English, Kannada.

Declaration:

I hereby declare that I would be glad to come for interview at any time that is convenient to you and assure you of my devoted service.

Date:

Place:

Pooja P N