NEHA CA

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CAREER OBJECTIVE

To obtain a position as a VLSI Physical Design Engineer in a fast-paced and challenging environment where I can leverage my expertise in designing complex chip layouts while contributing to the success of the organization.

EXPERIENCE

VLSI Physical Design Engineer - TechMahindra Cerium *[Aug2022-March2023]*

- Completed training in core VLSI skills such as Digital System Design, Verilog, Unix, Vim/Gvim, Tcl Scripting, Physical Design flow, and Sign-off checks.
- Familiar with Netlist to GDSII of Integrated circuit design flow [Synthesis,Floorplan,Powerplan,placement,CTS,Routing,STA]
- Worked on sample project DTMF ,28nm ,1 GHz

EDUCATION

Bachelor of Technology in Electronics and Communication *[Aug2018 - May2022]*

Govt Rajiv Gandhi Institute of Technology,kottayam *CGPA -7.51*

Higher Secondary Education *[Jun2017-March2018]*

HHSIBS HSS Edneer *Percentage -96%*

AREAS OF EXPERTISE

- **Exposure-** UNIX ,Vim, VLSI Physical Design
- **Languages -**Verilog,Tcl,Python
- **Tools-**Synopsys Design Compiler, Synopsys IC compiler (ICCII), Synopsys StarRC, Primetime
- **Soft Skills -** Problem solving,Communication,Management

PROJECTS

DTMF -Dual tone multi frequency -Physical design trainee project *[Jan2023-feb2023]*

- Technology -28nm ,1GHz
- 9 Metal layers
- Carried out logical and physical aware synthesis for the both DFT inserted and non-DFT inserted RTL .
- Created a NDM database for multiple scenarios and performed cross corner analysis.
- Multiple floorplan , placement iterations were done to converge the timing.
- Performed power planning including the power ring for PLL macro and fixed the DRC violations.
- Non - Default clock routing was performed to reduce CrossTalk effects on clock nets.
- On analysing congestion maps several routing blockages were implemented.
- Timing closure done for 2 RC corners including the design rule violations

AGRI ROBOT -BTECH Academic project *[Sep 2021-Jun2022]*

- Developed an Agri-robot system to monitor crops and for identifications and monitoring of diseases & pesticides.
- The robot helps the farmer to make informed decisions locally or allows connecting with other existing services. This agri-robot finds diseases on various infected leaves.
- This system results in detection of diseases in tomato plants and communicates with farmers through a web app.

YOLO HELMET DETECTION -BTECH Design Project *[Dec2020 -Jan2021]*

- Designed and developed a helmet detection model using yolo v3 and nodeMCU
- Yolo is a real time object detection system

INTERNSHIPS

PACELAB *[June 2019]*

- Learned about controlling a physical device using Internet of Things

TRIAC *[Oct 2019]*

- Participated in Yantra -Yantra a robotics based Workshop cum hackathon conducted by IEEE

LANGUAGES

- English
- Hindi
- Malayalam