Lakshay **Bhatia**

ELECTRICAL AND ELECTRONICS ENGINEER

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Summary

Currently pursuing Bachelor of Technology in Electrical and Electronics Engineering from Bharati Vidyapeeth's College of Engineering New Delhi. I am actively looking for a place in the VLSI industry. I am continously learning and trying to be better than yesterday in the feild i am working on.

Education

Bharati Vidyapeeth's College of Engineering   *Paschim Vihar, New Delhi, India*

B.TECH IN ELECTRICAL AND ELECTRONICS ENGINEERING   *August 2017 - Present*

CGPA - 8.4

Neo Convent Senior and Secondary School   *Paschim Vihar, New Delhi, India*

CBSE - AISSCE   *March 2017*

CGPA - 9.6

Neo Convent Senior and Secondary School   *Paschim Vihar, New Delhi, India*

10TH   *March 2015*

CGPA - 9.4

Internships

3ST Technologies Pvt. Ltd.   *Noida, India*

TRAINEE, VLSI   *Feb. 2019 - August 2019*

- Part of a Industry Standard learning phase.
- Used Linux and Shell Scripting to automate the tasks and access various directories and features of the operating system.
- Implemented various logic problems using Digital Electronics.
- Modelled the generated hardware in Verilog and verified it by constructing various test benches.
- STA - Static timing analysis of the code and preventing simulation synthesis mismatch.

3ST Technologies Pvt. Ltd.   *Noida, India*

TRAINEE, EMBEDDED SYSTEMS   *June 2018 - July 2018*

- Constructed various prototypes using the embedded systems architecture.
- Implemented Real time projects using embedded systems design.
- Interfaced LCD and various other sensors to the microcontroller in Embedded C.
- learned about x86 intel architecture and assembly language.
- interfaced the micro-architecture of 8051 mcu and 8085 mpu.

Technical Projects

Nutty Squirrel, Jan. 2019

MAZE SOLVING ROBOT

- Automated Robot that uses dijkastra algorithm to find the shortest path of a maze using Atmega 2560 microcontroller, color sensor, ultrasonic sensor.

Smart Grid, Oct. 2018

SUSTAINABLE DEVELOPMENT

- Implemented a load shedding and load balancing system that monitors real time data using PLC and SCADA

LFR (Line Following Robot), Nov. 2017

HACKATHON

- Built a robot that follows the given printed line with the help of arduino microcontroller and infrared sensors.

Water Treatment Plant

INDUSRTRY 4.0

- Built an automated water treatment plant using SCADA and aslo enabled HMI with animations.

Technical Skills

PROGRAMMING LANGUAGE

Embedded C, C, C++, Matlab & Simulink,

SCRIPTING LANGUAGE

Python, BASH Shell,

HARDWARE DESCRIPTION LANGUAGE

Verilog,

HARDWARE

Arduino, Raspberry Pi, Intel FPGA, Xillinx FPGA,

WEB DEVELOPMENT

HTML 5.0, CSS3, Bootstrap, Jquerry, Java Script, Django,

Acheivments

SCHOLARSHIP

Won a scholarship for getting 9.4 CGPA in 10th class and also among top 10 students.,

OLYMPIAD

Won second position in inter school physics olympiad competition,

SPORTS

Won first position in inter house kho-kho competition,

Courses

Introduction to FPGA Design for Embedded Systems

COURSERA   *September 2019*
- Integeration of a FPGA into ASICs and High Performance Computers

IC Design Process : An Overveiw

UDEMY   *June 2019*
- Learned about the process from RTL to Place & Route

Homabaked | Raspberry Pi + Django Home Server

UDEMY   *October 2017*
- Established a server on Raspberry Pi using Django as backend

Embedded Systems

NPTEL   *Feb 2018*
- Learned how an effective embedded systems work and are designed

Research Work

2019   **Electrified Skateboard**, Battery Powered vehicles is the only future for automobiles
2018   **Industrial Automation**, How Industry 4.0 and PLC SCADA gonna change the working culture

Hobbies and Interests

Hobbies   **Cricket, Travelling, Video Gaming**,
Interests   **Computer Architecture, Smart Grid, Sustainable Development**,