Rishabh Handa

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EDUCATION

JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA
B.Tech (Electronics and Communication)
2015-2019 | AKTU
Percentage : 69.27%

DPVN, KANPUR
XII (Senior Secondary)
2013-2014 | CBSE Board
Percentage : 92.60%

DPVN, KANPUR
X (Secondary)
2011-2012 | CBSE Board
CGPA : 9.2/10

LINKS

Github:// **RHanda02**
LinkedIn:// **rishabhhanda**

COURSEWORK

Digital Design using Verilog
Control Systems
Advanced Electronics System
Data Structure & Algorithms
Microprocessor
VLSI Design
Digital Signal Processing

SKILLS

PROGRAMMING
Python • C • Embedded C • Verilog
VHDL • MATLAB • Assembly

TOOLS
ROS • Xilinx • MATLAB • Git
fritzing • Cadence-OrCAD

HARDWARE
Arduino • Raspberry Pi • ESP 32
MSP430 • CC3200 • 8085 • 8051

OTHER DETAILS

RESPONSIBILITIES
Member of Core Team Committee JSS
Lab Coordinator, Embedded Systems & Robotics Lab

LANGUAGES
English proficient • Hindi • Punjabi

EXPERIENCE

PARAGRAPH TECHNOLOGIES | Embedded Intern
July 2018 – Sept 2018 | Noida

- Programming on Arduino, ESP8266 and ESP32.
- Research to innovate a new and efficient method for digital writing.
- A low cost digital writing concept was developed and a patent application was filed for the same.

SHELLIOS TECHNOLABS | Product Development Intern
Feb 2018 – March 2018 | JSS Step, Noida

- Programming on ESP32 for the working of the Idea.
- Hardware testing and suggesting ways to improve it if the tests fail.

MNNIT | VLSI Design and Embedded Systems Trainee
June 2017 – July 2017 | MNNIT, Allahabad

- Synthesis and simulation of circuit designs on Xilinx ISE using Verilog. Worked on Mentor Graphics to design the layout of IC and implementation on FPGA Kit.
- Learned the basic concepts of embedded systems and to program in assembly language on 8051 micro-controller and then using Embedded C programming.
- Beside the mini projects, the major projects were realization of Wallace Tree Multiplier and Light to frequency converter on trainer kit.

PROJECTS

DRONE LOCALIZATION AND NAVIGATION | ROS, Python
October 2017 – March 2018 | e-Yantra IIT-B, Finalist
A drone based project that involves automatic stabilization and localization of a quadcopter. It was developed using Python and ROS. Gazebo simulator was used prior to implementation.

SMART HOME | Arduino,ESP32
SEPTEMBER 2017 - OCTOBER 2017 | Self practise
A Smart home project using different sensors like Temperature and Humidity sensor(for automatic appliances control), Rain sensor(for protecting clothes from rain), IR sensor, LDR(for automatic curtain control) etc.

MUSICAL NOTE IDENTIFICATION AND PLAYING VIA ROBOT | Python, Audio Processing, Embedded C
October 2016 – March 2017 | e-Yantra IIT-B, Semi-Finalist
A Python based program that can process the audio file and extract the Musical Notes from it. The task was to extract the notes and transfer it to the robots that can process it, play the same notes by striking pipes kept on the arena and display the same on its screen .

- Audio Recording — ESP Programming
- Hand Gesture controlled Bot — Arduino
- Maze Solving — Embedded C

ACHIEVEMENTS

2018	National	Finalist	Kronothon 2.0
2017	National	4th/202	E-Yantra, IIT-B under MHRD
2017	College	Hosted	Embedded Systems Workshop
2016	National	Semi-Finalist	E-Yantra, IIT-B under MHRD
2016	College	Hosted	Manual Robotics Workshop