

Satvik Singh

Phone: +91 8860119955 | LinkedIn: www.linkedin.com/in/satvik-singh-4b9baa243/ | Email: satviks.0401@gmail.com | Location: New Delhi

INTRODUCTION

Enthusiastic about software development and equipped with a background in Electronics and Communication Engineering. With strong foundation in academics, I'm committed to advancing my skills and knowledge by contributing to innovative projects in the field.

EDUCATION

Manipal University Jaipur

Bachelor of Technology in Electronics and Communication Engineering; CGPA: 8.7

Jaipur, Rajasthan

September 2020 - Expected June 2024

Sahoday Sr. Sec. School

Class (12th) Board: CBSE; Percentage: 81%

New Delhi

Sahoday Sr. Sec. School

Class (10th) Board: CBSE; CGPA: 8.6

New Delhi

SKILLS

Languages: C++, Python, HTML, CSS, Verilog

Operating Systems: Linux, Windows

Spoken Languages: English (Full Professional Proficiency)
Hindi (Native or Bilingual Proficiency)

Additional Skills: SQL, DBMS, OS, OOPS

INTERNSHIP

Summer Internship

At Truechip Solutions, NOIDA

June 2023-July 2023

Project Description:

Produced a script in Python to automate the execution of Universal Verification Methodology (UVM), a verification tool in the field of VLSI, with various configurations as per user specifications, all while producing an Excel log to record simulation particulars.

Technology used: Python 3.0, Virtual Linux, Libre Office.

PROJECTS

1. File Manager: Secure File Management System[Feb 2023]

The Secure File Manager is a software tool designed for efficient handling of files and directories with a strong focus on security. It allows users to create and delete files, encrypt and decrypt data using XOR encryption, and manage access through user authentication. With a simple interface, it ensures ease of use across different platforms while prioritizing data integrity.
Technology used: C++20, VScode.

2. Bank Management System[Dec 2023]:

Engineered the backend infrastructure of a feature-rich Bank Management System using C++, allowing users to perform key banking operations including account opening, depositing funds, withdrawing funds and account deletion. This project was made using a hybrid approach of both Object Oriented Programming and Functional Programming keeping in mind the usability and efficient functionality of the code.

Technology used: C++20, VScode.

3. RC Land Mine Detector Car[March-April 2023] MINOR PROJECT:

An RC controlled land mine detector is used to patrol war areas, in search of land mines which are fit in the land as a trap for heavy vehicles. As soon as the robot comes across a mine, it'll start beeping and reveal the location of the mine, making the military vehicles aware and choose a safer path to travel.

Components used: Connecting wires, 12v batteries, DC motors(4), Bluetooth module(HC-05), Motor driver(L298N), LED, Buzzer.

4. Arduino-based Flow Sensor[April-May 2022]:

Contact flow sensor coded with Arduino to give the flow in Liter/sec of the fluid flowing across it. This project aims at saving and keeping track of the amount of water supplied in a society or in a large scale water treatment plant. This project was assigned by Swam Water Tech Pvt. Ltd., Rajasthan. Started and completed it during the month of April-May 2022.

Components used: Arduino MKR Zero Board, Water Flow Sensor, LCD, Bread Board, 9V Battery.

COURSES

1. Complete C++ (SimpliLearn) : Completed [February 2024].

2. Complete Web Development Bootcamp (Udemy): (Ongoing)

ACCOMPLISHMENTS

1. Dean's list of excellence award for scoring the highest grade point average in the 6th semester.

2. Social Media Head of the Sports Club of Manipal University Jaipur.