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Academic Details

Year	Degree	Institute
2016-Present	Computer science and engineering	Indian institute of technology Jammu
2016	12th - CBSE	St. Joseph and Mary public school
2014	10th - CBSE	St. Joseph and Mary public school

Objective

To pursue graduate studies in computer science and engineering, leading to a career in development. I am interested in computer vision, web development and android app development.

Major Projects

- # RoboWarz multiplayer game

    It is a multiplayer game similar to the famous game Pocket-Tanks. Many no. of players can connect to the server and can play this game over the network. This game is made using JavaScript and its various libraries like NodeJS, AngularJS, CreateJS etc..
 The link to code is :
 https://github.com/mayanksingh1998/RoBoWarz-Multiplayer-Game

- # Pipeline ARM-Simulator

    It is a simulator for Arm Assembly language with an attractive GUI. This simulator is based on the concept called pipeline. User Just have to provide the arm instruction code and it will execute the instructions accordingly
I had made this in C++ and the code is :
https://github.com/mayanksingh1998/Pipeline-Arm-Simulator

- # AC-Circuit Solver

    It is a programme in which u just have to provide the AC circuit in the form of NETLIST (code) and it will draw the SVG image of the circuit and will solve the AC-circuit accordingly.
This link to code is : https://github.com/mayanksingh1998/AC-Circuit-Solver

- # 3D Balls Screen Saver

    This is 3D balls screen saver. The user can input the no. of balls he wants. User can increase or decrease the speed of balls and also can pause the screen saver. The collision between the balls and obstacles is totally elastic.
 This was made in OpenGl and the code is :

 https://github.com/mayanksingh1998/3D-Balls-screen-saver

- # **My Portfolio webpage**

  For more information go to my webpage :- mayanksingh1998.github.io

- # **Lift Management System in VHDL**

  It is a controlling system in which there is two lifts and there are four floors and on each floor, there is two buttons one for requesting for going up and another one for going down. In each lift there is 4 buttons for each floor and one button for door opening and one for door closing. It is based on the working that if u will request from any floor the lift which is nearby you will come to serve you.

  Link to the code
  https://github.com/mayanksingh1998/lift-controlling-system

- # **Music Player App (android studio)**

  It's a simple music player app which load the music from the storage of the phone. link to the code is: -
  https://github.com/mayanksingh1998/music_player_app

Other Projects

- ## A Simple Calculator.apk (android)

  It's a simple calculator which can perform basic operations (+, -, /, *)
  Link to the code is: -

  https://github.com/mayanksingh1998/simple_calculator

- ## Tic_Tac_Toe game.apk (android)

  A simple tic tac toe game link is   https://github.com/mayanksingh1998/Tic_tac_toe

- ## Data Structures and Algorithms

  Various CPP programmes based on data structures like stacks, queue , hash , all types of Trees, Graphs.
  https://github.com/mayanksingh1998/data-structures-projects.git

- ## VHDL Projects

  There are some of my projects=   https://github.com/mayanksingh1998/VHDL-projects.git

Conferences/Workshops Attended

Workshop on Web Development   Oct-2017
Workshop on Android App Development   Oct-2017

Workshop on IOT	Sep-2017
Workshop on Cloud Computing	Aug-2017

Relevant Courses

- **Computer Science:** Computer Architecture, Programming Languages, Data Structures and Algorithm, Digital Logic and Circuit.
- **Mathematics:** Discrete Mathematics, Probability Theory, Stochastic Process, Differential Equations, Linear Algebra, Matrix Theory.

Computer Skills

- **Programming Languages:** JavaScript, D3.JS, NodeJS, AngularJS, CreateJS, SML/NJ, OpenGl, Flex, Bison, ARM Assembly Language, ReactJS, HTML, CSS, Java, C/C++, Python, VHDL.
- **Software Packages:** MATLAB, Latex, Xilinx, Android Studio, Autodesk Inventor.
- **Platforms:** Linux and Windows.

Extra-Curricular Activities

. State level Player in Table tennis. . Hobbies include reading sci-fi novels, trekking, sports and drawing

Position of Responsibility

. Training and Placement Cell coordinator for CSE Department . Sports Secretory at IIT Jammu.