

**jatin singh shekhawat**

BK Birla Institute of Engineering Technology

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**ACADEMIC DETAILS**

- **BK BIRLA INSTITUTE OF ENGINEERING AND TECHNOLOGY, PILANI** [2022-26]
  - B Tech ECE (8.21 CGPA)
- **STAR ACADEMY, JHUNJHUNU** [2021-22]
  - Senior Secondary (RBSE)
- **STAR ACADEMY, JHUNJHUNU** [2019-20]
  - Matriculation (RBSE)

**FIELDS OF INTEREST**

- Chip designing, VLSI Design and Verification, Internet of Things (IoT), Hardware Architecture Design

**TECHNICAL SKILLS**

- **Programming language** (C, Python, TCL).
- **VLSI Design Languages** (Verilog, VHDL, SystemVerilog).
- **Design an Simulation Tools** (ModelSim, Xilinx, TCLsh, EDA Playground, Visual Studio Code).
- **Software for Projects** (Inkscape, Universal Gcode Sender, Drawbot).
- **Miscellaneous** (IOTs).

**CERTIFICATES**

- Successfully completed a 45-day training program on "Advanced Digital Design using HDL." Gained practical experience in digital circuit design and received a certification for the course
- Successfully achieved proficiency in the Introduction to the Internet of Things and Embedded Systems through an online course on Coursera.
  - [view certificate](#)

**MAJOR PROJECTS AND SEMINAR**

- **CloudPen**  
(Cloud-IoT Integrated Project, jan'27 - till date)
  - Designed and built a handwriting machine using Arduino, ESP8266, stepper motors, servo motors, and 3D-printed components.
  - Developed firmware for Arduino to interpret G-Code instructions and control the writing mechanism.
  - Integrated ESP8266 Wi-Fi module to fetch G-Code files from AWS S3 and relay them to Arduino.
  - Collaborated with a software developer to enable cloud-to-hardware communication via AWS IoT Core.
  - Tested and calibrated the system for accuracy, reliability, and real-time handwriting execution.

**TRAINING AND INTERNSHIPS**

- **In-House Summer Internship - BK Birla Institute of Engineering Technology (12th-24th June 2023)**
  - Successfully completed a summer internship organized by the Department of Applied Sciences Humanities.
  - Gained hands-on experience in relevant engineering concepts and practical applications

- [view certificate](#)
- **Advanced Digital Design using HDL - FutureWiz (7th June 2024 - 2nd August 2024)**
  - Completed 45-day training focused on HDL-based digital design.
  - Gained hands-on experience in synthesis, simulation, and verification techniques.
  - [view certificate](#)

#### STRENGTHS

- Social Interaction, Hardworking.

#### INTEREST AND HOBBIES

- Solving Puzzles.
- Playing Badminton