

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

- **Voice-Activated CNC Machine**
(Voice-Controlled IoT System, (Q1 2025))
 - Built handwriting CNC machine using Arduino, ESP8266, stepper motors, and 3D-printed parts.
 - Developed Arduino firmware to interpret G-code and control writing.
 - Successfully connected CNC via HC-05 Bluetooth before moving to ESP8266 Wi-Fi.
 - Integrated Google Assistant and IFTTT for voice-triggered CNC operation.
 - Achieved fully wireless, voice-controlled handwriting automation.

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