

# Hitesh Borate

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## EDUCATION

VIT Bhopal University   B. Tech ECE Specialization in AI and Cybernetics   CGPA: 8.05/10   Bhopal	June 2021 - Present
Kottam Junior College   12th Standard   Percentage: 87.4%   Gadwal, Telangana	June 2019 - April 2021
Akshara Concept School   10th Standard   CGPA: 9.2/10   Gadwal, Telangana	May 2019

## SKILLS

- **Programming Language:** C++, C, SQL
- **Web Development:** HTML, CSS, UI/UX
- **Electronics:** Circuit Design, Analog/Digital Electronics, Signal Processing

## PROJECTS

<b>Receiver Design Engineer - Autonomous Micro Aerial Vehicles (MAVs) Project</b>	Jul 23 - Apr 24
<ul style="list-style-type: none"><li>• Designed and implemented a receiver for a quadcopter using Arduino Nano and NRF24L01 module.</li><li>• Led 3D design and prototyping for drone components using Fusion 360, optimizing for weight and functionality through slicing and 3D printing methods</li><li>• Conducted literature reviews on MAV innovations, focusing on propulsion systems, aerodynamics, and control algorithms to enhance drone performance.</li></ul>	
<b>Solar Wireless EV Charging System</b>	Nov 22 - Feb 23
<ul style="list-style-type: none"><li>• Engineered a solar-powered wireless EV charging system using electromagnetic induction, enabling seamless power transfer without physical cables.</li><li>• Designed and simulated wireless power transmission circuits, optimizing MOSFET performance and component integration for efficient energy transfer.</li><li>• Integrated a solar panel with the charging system, improving energy efficiency and mitigating range anxiety for EV users..</li></ul>	

## EXPERIENCE

<b>VLSI intern   Maven silicon</b>	Aug 23 - Oct 23
<b>AHB to APB Bridge Design and Implementation:</b>	
<ul style="list-style-type: none"><li>• Designed and implemented an AMBA-based AHB2APB Bridge to facilitate seamless data transfer between high-speed (AHB) and low-speed (APB) buses.</li><li>• Verified the bridge's functionality through rigorous testing with AHB Module and APB Module test benches</li><li>• Improved SoC integration by enabling high-performance communication between processors and peripheral devices.</li></ul>	

## CERTIFICATIONS

1. MATLAB fundamental course
2. Bolt - IOT & Machine Learning
3. Introduction of Natural language Processing

## EXTRA-CURRICULARS

- **Member of Vitronix Club:** Participated in robotics and technology events, contributing to project development and technical demonstrations.
- **Volunteered annually** in food donation drives and environmental NGO initiatives, supporting sustainable practices and community outreach.
- **Secured 1st place** in the Inter-School Cricket Tournament, demonstrating strong teamwork and leadership skills.

## ADDITIONAL INFORMATION

- **Sports:** Regularly play in a local cricket match which helped me develop strong teamwork skills.
- **Hobbies:** Playing Chess, Cricket, Drawing
- **Languages:** Marathi, English, Telugu, Hindi