Rahul Patel

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Location: Ahmedabad, Gujarat

Roll Number: EC2021006

Education

B.Tech in Electronics and Communication

Great Learning University | 2021-2025

CGPA: 8.9/10.0

12th Grade (GSEB)

Ahmedabad International School | 2020-2021

Percentage: 94.8%

Technical Skills

VLSI Design   IoT   Arduino   Python   PCB Design   Verilog   MATLAB

Projects

Smart Traffic Management System

• Designed and implemented an IoT-based traffic management system

• Used Arduino and sensors for real-time traffic monitoring

• Achieved 30% reduction in average wait time at test intersection

Low-Power VLSI Design for IoT Devices

• Developed energy-efficient VLSI design for IoT sensor nodes

• Implemented power optimization techniques using Verilog

• Reduced power consumption by 40% compared to baseline

Certifications

• Certified IoT Professional by Intel (2024)

• Advanced VLSI Design - IIT Bombay (2023)

• PCB Design and Fabrication - Texas Instruments (2023)

Achievements

• Best Project Award at National Electronics Symposium 2023

• Second Prize in IoT Innovation Challenge

• Published paper in IEEE Conference on VLSI Design

Research Experience

Summer Research Intern - IIT Bombay

• Worked on power optimization in VLSI designs

• Developed novel approach for reducing switching power

• Contributed to a research paper on low-power design techniques