

EDUCATION

B.E. in Electronics And Telecommunication Engineering |

Assam Engineering College, Guwahati, Assam | 2021

76.02% | A.S.T.U., Assam, India

XII | 2017

Ramanujan Junior College, Nagaon, Assam

84% | A.H.S.E.C., Assam, India

X | 2015

Ramanujan Secondary School, Nagaon, Assam

91.2% | S.E.B.A., Assam, India

SKILLS

PROGRAMMING

- C • C++ • Verilog
- Python • SQL

TECHNICAL

- Digital Electronics
- MicroControllers
- Embedded System
- VLSI • IoT

Circuit Simulation

- Xilinx Vivado • Sue2(SPICE)
- Proteus • KEIL

SOFT

- Leadership • Teamwork
- Problem Solving • Creativity
- Adaptability

TRAINING

• **Internet of Things, Embedded Linux** | CDAC-Pune

• **Signal Processing** | Indian Railway HQ, Guwahati

• **32-bit RISC-V Architecture** | VLSI Experts

• **PCB Design Workshop** | ESTC, MSME

• **SAP ABAP** | Capgemini Tech. Services India Ltd

HOBBIES

- Photography
- Movie Collecting

EXPERIENCE

Rognidaan Technologies Pvt Ltd |

(February 2023- November 2023) | Embedded Systems Developer

- Built two embedded systems for the companies research work. Responsibilities included selecting various components, integrating them, hardware modeling, software coding, testing and fixing unstability issues

Capgemini Technology Services

India Ltd | (August 2021-June 2022) | Analyst/Software Engineer

- Worked in ABAP language on SAP systems. Work included managing databases, designing UI and performing enhancements on existing systems.

VLSI EXPERTS | 6th Sem Industrial Internship

- Designed a 32-bit system which unlocks a system using fingerprint and PIN

Institute of Advanced Study in

Science and Technology | Research Internship | (5th Semester)

- Built an embedded system to capture micro details of a surface.

PROJECTS

SMART WATERTANK SYSTEM | Winter Internship Project

- User can see the amount of water present in the tank on the smartphone, automated waterpump control using IoT.

SMOKE SENSOR USING ANALOG IC | 4th Semester Project

- Notifies the presence of smoke via LED and Buzzer. MQ2 sensor based.

EMBEDDED SYSTEM TO CAPTURE MICRO DETAILS OF A SURFACE | Research Intern Project

- Used microcontroller, DC motor, 15mm lens, digital caliper to rotate the object and capture video with minimum overlapping parts.

VLSI EXPERTS | Summer Internship Project

- Designed a 32-bit chip architecture which unlocks a system using fingerprint and PIN data in SPICE sim.

CAPTURING IMAGES ON A XY PLANE AUTOMATICALLY IN A SEQUENCE | Paid Internship Project

- Used stepper motor and drivers, raspberry pi, raspberry pi camera and gears

Motion Sensitive Torch | Personal Project

- Designed a torch which lights up when it's picked up in the dark. It get turned off automatically when left idle on a surface. It doesn't light up when there's already sufficient light

16 BIT RISC PROCESSOR DESIGN | Final Year Project

- Designed a 16 bit RISC processor to do basic arithmetic and logic operations. More scopes to add more functions in future. Designed the architecture from scratch(CMOS level) in SPICE simulation. Successfully simulated in Xilinx Vivado by coding in Verilog HDL