

Maulik Thakar

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EDUCATION

North Carolina State University

Raleigh, NC

Master of Science in Computer Engineering (GPA 3.4)

May. 2022 – May 2023

- **Relevant Coursework:** ASIC Verification, Strategic Management Foundations, Cloud Computing, ASIC & FPGA Design, Internet Protocols, Python in Engineering

North Carolina State University

Raleigh, NC

Bachelor of Science in Computer Engineering (GPA 3.6)

Aug. 2018 – May 2022

- **Relevant Coursework:** Medical Instrumentation, Wireless Networking, Computer Vision, Neural Networks, Network Security, Embedded Systems, Compiler Optimization

PROFESSIONAL EXPERIENCE

Extron Electronics

Raleigh, NC

Application Engineer for Control Systems

Nov 2023 – Current

- Delivered tier-two technical support for a comprehensive range of AV hardware and software, responding to inquiries from professional audiovisual integrators and engineers to ensure top-tier client satisfaction
- Provided expert guidance via phone and email, addressing technical issues and recommending solutions tailored to customers' AV systems
- Collaborated with sales teams as a technical advisor, contributing to product recommendations and system design support, ensuring effective product integration
- Developed solutions to address a wide range of AV application challenges, leveraging expertise in IT and networking to ensure smooth system integration and performance
- Designed and programmed Extron control processors in Python, integrating AV devices like matrix switchers and touchpanels into a seamless, automated control system for enterprise environments
- Certifications in Extron Control Professional (ECP) and Extron AV Associate (AVA)

NC State University Libraries

Raleigh, NC

University Library Technician

May 2019 – Nov 2023

- Facilitated understanding of complex library resources by acting as a knowledgeable resource for patrons and training new team members
- Supervised and trained students in information services, recognized with the “Student of the Year” award for exceptional contributions

Protochips

Cary, NC

Engineering Intern

May 2021 – Feb 2022

- Enhanced database performance by 60% via migration to MySQL and created PowerBI dashboards to provide data insights
- Trained technicians in quality control techniques, improving production efficiency through enhanced defect identification, creating documentation for workflow replication

PROEJCTS & RESEARCH EXPERIENCE

NC State University Chemical and Material Science Labs

Raleigh, NC

Paid Undergraduate Researcher

June 2019 – May 2022

- Researched and developed stretchable touch sensors, contributing to advancements in flexible, touch-sensitive technology

ECE Senior Design

Raleigh, NC

Database Lead

Aug 2021 – April 2022

- Led database project scope and milestone development, culminating in a 2nd place finish in the Design Day competition

TECHNICAL SKILLS

Languages: Python, C++, C, Java, Assembly, HTML, SQL, Verilog

Developer Tools: Bash, Git - [maulikt00.github.io/](https://github.com/maulikt00) **Libraries:** pandas, NumPy, Matplotlib, scikit-learn

Certifications: Generative AI Fundamentals – Google Cloud