Kaustav Kesher

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PROFILE

A passionate and detail-driven Master's student in Engineering Technology, with a solid foundation in Electronics and Communication Engineering. Experienced as an Application Engineer, skilled in electronic circuit design, signal processing, and embedded systems. Proficient in Python and MATLAB, with practical expertise in microcontroller-based project development and hands-on technical problem-solving. Currently pursuing advanced studies to further expand knowledge and technical capabilities in the field

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SKILLS

Technical Skills: Python, SQL, Networking, Proficient in Microsoft Office Suite

Tools: RStudio, VSCode

Soft Skills: Communication, Problem Solving, Project Management, Troubleshooting

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EMPLOYMENT HISTORY

Jul 2021 — May 2024

Application Engineer (Full-Time), Ripplr
Bengaluru, India

As an Application Engineer at Ripplr, a company that enhances logistics and distribution efficiency through AI-driven solutions and a modular plug-and-play framework, I collaborated closely with senior finance teams, project managers, and product development teams to **create custom solutions tailored to client needs.**

Identified, debugged and resolved issues that resulted in more than 30% reduction in the support cost for the company.

Through effective communication, provided technical assistance and training to customers in using Ripplr products, becoming the subject matter expert of the multiple areas of the Ripplr product.

INTERNSHIPS

Apr 2021 — Jun 2021

Application Engineer, Ripplr
Bengaluru, India

Project 1: Enhanced the Distribution Management System (DMS) by applying advanced problem-solving techniques, which optimized inventory tracking, streamlined order fulfillment, and boosted overall operational efficiency.

Project 2: Improved the NetSuite system by resolving data integration and reporting challenges, resulting in more efficient operations and smoother workflows.

EDUCATION

Aug 2024 — Present

Master's in Engineering Technology, Kent State University
Kent, Ohio

The curriculum combines technical instruction with practical experience and includes specialties in manufacturing and systems engineering, to prepare graduates for leadership roles.

Aug 2017 — Jun 2021

Bachelors of Technology, Technocrats Institute of Technology
Bhopal, India

Completed Bachelor of Technology in Electronics and Communication Engineering with a **CGPA of 8.05/10**. Gained strong knowledge in areas such as Digital Electronics, Communication Systems, Microprocessors, and Signal Processing

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PROJECTS

Autonomous Vehicle System Integration
Designed and implemented a robotic car system by integrating hardware, software, and communication components. Utilized **Arduino Uno, Ultrasonic** and **LiDAR sensors** for real-time obstacle detection, developed an Android application for remote control, and employed **Bluetooth technology** to ensure seamless communication between the mobile device and the robotic car.

IoT-Based Home Automation Using NodeMCU
Developed an **IoT-based** home automation system using **NodeMCU** and the **Blynk app**, enabling remote control of home appliances through a user-friendly mobile interface. Integrated components like temperature and humidity sensors, motion detectors, smart relays for appliance control, and light sensors for automated lighting adjustments.