

Pradip Sapkota

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Education

Minnesota State University – Mankato, MN – AACSB Accredited

Expected graduation – 05/2026

Bachelor of Science in Major: *Computer Engineering and Minor in Mathematics*

Cumulative GPA: 3.46

Skills and Interests

Skills: C++, C, VHDL, SystemVerilog, Assembly, HTML5, CSS, Python, Java, C#

Software: Azure DevOps, Visual Studio, Eclipse, Code:Blocks, MS Office, Github, MATLAB, Photoshop, LabVIEW, Keil uVision, Microchip Studio, Illustrator, Blender

Hardware: Oscilloscope, Multimeter, Analog Computer, FGPA, Arduino Uno, STM32, XMEGA

Courses: Programming in C, Robotics Programming, Microprocessor Engineering I, II, Digital System Design, Control Systems, Sensors and Systems, Communication Systems Engineering, Signals and Systems, Circuit Analysis I, II, Electronics I

Professional Experience

Student Consultant – *Minnesota State University, Mankato – IT Solutions, Mankato, MN*

Jan 2024 - Present

- Understand client requirements and provide strategic advice on using technology to achieve their goals.
- Manage IT projects, including planning, implementation, and troubleshooting technical issues.
- Resolve 50+ technical issues across various operating systems, including Android, iOS, MacOS, Windows and Linux.
- Train users on new and existing IT systems to ensure effective utilization.

IT Support Technician – *Minnesota State University, Mankato – IT Solutions, Mankato, MN*

Aug 2023 – Jan 2024

- Staged ~14 desktops daily to be used on-campus by installing over 38 licensed software images
- Implemented a desktop setup procedure to be used by 6 student consultants for ~8 faculty and staff daily
- Documented and maintained ~28 troubleshooting procedures and linked processes to submitted tickets
- Monitored 52 laboratories to ensure compliance with software licensing by assisting in documentation

Student Manager – *Minnesota State University, Mankato - UDC, Mankato, MN*

Aug 2022 – May 2023

- Maintaining accurate records of store inventory, potentially using software or databases to track stock levels, sales, and orders.
- Troubleshooting technical issues with the POS system, ensuring its smooth operation for processing transactions and generating sales reports.
- Providing technical assistance to other student employees or customers, addressing issues with store equipment or software.

Selected Projects

Robotic Engineering Project

- Developed and tested robots using Raspberry Pi OS 2, ROS, and C++.
- Integrated a 2-D interactive grid game feature to enhance robot interactivity and provide dynamic visual feedback for user inputs.
- Configured and programmed robotics system for various tasks using I2C communication method.
- Conducted comprehensive testing to ensure optimal performance and reliability.

Interactive Voice Assistant using Raspberry Pi - Junior Design Project / Minnesota State University, Mankato

- Designed a modular system architecture, integrating voice recognition, natural language processing (NLP), and output response modules to ensure scalability and ease of debugging.
- Integrated hardware and software systems on a Raspberry Pi, ensuring efficient communication between components using optimized GPIO and Python-based drivers.
- Conducted iterative testing and refinement, identifying and resolving system errors to improve response accuracy and overall reliability.

Extracurriculars

Member - *IEEE – Institution of Electrical and Electronics Engineering*

Aug 2022 – April 2023

- Executed 3 tutoring sessions and organized 4 seminars with speakers from different companies.
- Executed a plan to provide an entrepreneurial platform for students of different departments to bring up startup ideas.

Honors And Award

IEEE Scholarship: Awarded \$1500 for outstanding merits and projects as a member of IEEE

Aug 2024

International Endowment Scholarship: Awarded \$3760 for outstanding merits and volunteering activities.

Aug 2022

Dean's List : Fall 22', Spring 23', Fall 23', Spring 24'