Endalkachew Abebe 518-405-9219 – Plattsburgh, NY – https://github.com/endalkK – eabeb002@plattsburgh.edu

EDUCATION

State University of New York at Plattsburgh   Plattsburgh, NY

Degree: Bachelor of Science, Double Major: Computer Science and Robotics; GPA: 3.97   Expected May 2025

ACHIEVEMENTS

- Honor Student
- Dean's List Recipient (Dean's List Fall 2021 - Present)
- Academic Excellence In Robotics (May, 2023)
- Scholarships: Cardinal Scholarship, Hudson Science Scholarship, Phyllis L. Wells Endowed Scholarship

Coursework: *Artificial Intelligence, Computer Organization, Control Systems, Design and Analysis of Algorithm, Embedded Systems, Electronics, Intermediate Robotics Lab, Physics and App of sensors, Operating Systems, Software Engineering*

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Python, HTML, CSS, Javascript, React Native, SQL, SQLite
- **Technologies/Software**: Arduino, AWS, Flask, Git, CircuitPython, Onshape/CAD, Pythorch, Raspberry Pi, ROS, TensorFlow

PROJECTS

Can't Cook | Python, Flutter, TensorFlow, Flask

- Built "Can't Cook," a mobile app using TensorFlow for food item recognition and storage via image scanning, achieving 90% accuracy in item recognition.
- Implemented the back-end using Flask, enabling generation of over 1,000 food recipes from an API based on scanned ingredients.

SentimentSwift: Twitter Edition | Python

- Developed a sentiment analysis model with 85% accuracy using machine learning techniques (Bernoulli Naive Bayes, SVM, Logistic Regression) and extensive data preprocessing in Python.
- Evaluated models using accuracy, F1 score, and AUC-ROC; Logistic Regression performed best and was deployed for real-time tweet sentiment classification.

Mars Rover | Arduino/C++

- Led the development of a Mars rover simulation, designing and implementing a grid environment with resources and obstacles, achieving a 95% success rate in start-to-goal navigation.
- Developed a Wavefront planner algorithm and applied PID, MPC, and whole body control methods, increasing rover navigation efficiency by 60% and reducing error rate by 50%.

EXPERIENCE

Monaghan Medical Corporation   Plattsburgh, NY

IT Support Intern   February, 2024 - Present

- Collaborated with the IT Support Analyst to manage IT functions (systems, applications, security, network configurations), ensuring seamless operations across all US operations, achieving 99% uptime compliance with company policies.
- Delivered frontline customer service for hardware, software, telephones, and smartphones, achieving a 95% first-contact resolution rate, enhancing workflow and productivity.

SUNY Plattsburgh ITS Helpdesk   Plattsburgh, NY

Helpdesk Support Technician   August, 2023 - Present

- Resolved over 150 technical issues per month, enhancing user experience and ensuring 99% system uptime.
- Delivered emergency tech support for classrooms, reducing disruptions by 50% and optimizing sessions for over 30 classrooms.

YAM Software - Leading Change Africa   Plattsburgh, NY

Software Engineer Intern   March - August, 2022

- Led the redesign of UI/UX, addressing usability challenges, resulting in a 40% increase in user satisfaction ratings.
- Implemented testing procedures for new software applications, reducing bugs by 30% and ensuring high-quality deliverables.

LEADERSHIP

- Coding-Hub Club, Secretary   August, 2021 - May, 2022
- SUNY Plattsburgh Learning Center, Tutor   March, 2022 - Present
- SUNY Plattsburgh Student Association, Senator   August, 2022 - May, 2023