**Eldad Workeneh Tolla**

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**EDUCATION**

**Randolph College**Cumulative GPA: 4.0  
Bachelor of Liberal Arts and Sciences, Double Major: Computer Science and Mathematics  
Minor: Data Science and Engineering  
Classification: Sophomore  
Scholarships: Wildcat Merit Scholarship

### Summary

Dedicated Computer Science and Mathematics student with a strong academic record and hands-on experience in tutoring, technical support, and leadership. Passionate about machine learning and AI, with a proven ability to develop and execute projects, enhance learning environments, and engage in community outreach. Seeking opportunities to leverage my skills and knowledge in a challenging and dynamic setting.

**EMPLOYMENT**

**Mathematics and Economics Tutor, Randolph College***2023 - Present*

* Tutor students in economics, calculus, and computer programming (including algorithms), ensuring they understand complex concepts.
* Help students improve academic performance by offering tailored support in mathematical theory and coding practices.

**Library Assistant, Lipscomb Library, Randolph College***2023 - Present*

* Assist library patrons with locating resources, managing circulation, and supporting academic research.
* Contribute to organizing and maintaining library collections and resources.

**IT Help Desk, Randolph College***2023 - Present*

* Provide technical support to students, staff, and faculty, resolving hardware and software issues across campus.
* Assist with troubleshooting and maintaining school technology systems.

**LEADERSHIP & PROFESSIONAL DEVELOPMENT**

**Presidential Ambassador  
*Randolph College  
2024 - Present***

* **Represent the college at official events, assisting with admissions, alumni relations, and community outreach efforts.**
* **Provide campus tours, engage with prospective students, and promote the college’s values and programs to diverse audiences.**

**Science Festival (SciFest) Intern, Randolph College***2023 - Present*

* Assisted with various aspects of the Science Festival, including organizing and supporting the LEGO competition.
* Participated in science outreach to diverse age groups, planning and leading community outreach activities to engage people in hands-on learning experiences.
* Helped foster an interactive and educational environment for festival attendees.

**Member, Society of Physics Students (SPS), Randolph College***2023 - Present*

* Collaborate with fellow members to plan and execute physics-related events and outreach activities.
* Engage in event planning and educational initiatives aimed at increasing student participation and interest in physics.

**First-Year Judiciary Chair Student Representative, Randolph College***2023 - Present*

* Chaired judiciary committee meetings, overseeing the adjudication of student conduct cases and policy violations.
* Interpreted and applied college bylaws to ensure fair and consistent case outcomes.

**HONORS AND CERTIFICATIONS**

* NSF SUPER Scholar Award Supported by The National Science Foundation, Randolph College (Aug 2023)
* Dean’s List, Randolph College (Fall 2023 & Spring 2023)
* Most Outstanding First Year Student in Computer Science and Mathematics, Randolph College (2024)
* Academic MVP Award, Randolph College (SUPER)

**Up Key Intern***2021 - 2022*

* Developed a digital marketing strategy as part of a capstone project, resulting in a 30% increase in online engagement.
* Managed day-to-day operations, including coordinating teams and overseeing project timelines, contributing significantly to the organization's successful execution of key initiatives.

**SOS Volunteer, Children's Village***2021 - 2022*

* Directed a STEM tutoring program for middle school students, where I developed and delivered interactive lessons in computer programming (using Scratch to build fun games), math, and other STEM subjects.
* Organized fundraising events such as charity auctions and community drives, raising over $600 to support educational resources for underprivileged children. Recognized as a gold member for outstanding contributions to both educational and fundraising efforts.

### Projects

**Ongoing Projects:**

* **Matrix Operations Library:** Creating a Python library for efficient matrix operations, utilizing linear algebra concepts to support various mathematical and engineering applications.
* **Personalized Study Plan Generator:** Developing an app that creates customized study plans based on students' learning styles and performance. Uses algorithms for personalized recommendations and AI for optimizing learning paths.

**Research Assistant, SUPERMinDS Program  
*Randolph College, 2024-2025***

* **Worked on data mining and analytics using USDA crop data.**
* **Developed and implemented data visualization techniques on a website.**
* **Participated in regular team meetings for training and project updates.**

**Research Assistant, Voice AI Robot Project  
*Randolph College,***

* **Developing a voice-activated AI robot to enhance human-computer interaction using natural language processing (NLP) techniques.**
* **Implementing speech recognition algorithms to improve accuracy in real-time communication.**
* **Assisting in coding and integrating AI-driven responses, enabling the robot to understand and respond to complex voice commands.**
* **Collaborating on testing and optimizing the robot’s performance in various environments for smooth interaction.**

**Competitor, Hill City Robot Combat***Randolph College, November 2023*

* Built and programmed a 1-pound combat robot to compete in the Hill City Robot Battle event.
* Engaged in design, testing, and iterative development to enhance the robot's performance for competition.
* Competed against other student-built robots, applying skills in robotics, mechanical design, and problem-solving.
* Gained experience in real-world robotics applications through the competition, which involved combat strategy and technical troubleshooting.

**Past Projects:**

* **Digital Marketing Strategy for Up Key:** Developed a marketing strategy that resulted in a 30% increase in online engagement.
* **STEM Education Program:** Created and delivered interactive lessons in computer programming (using Scratch) and other STEM subjects for middle school students.

### Skills

**Computer Skills:** Microsoft Applications (Excel, Word, PowerPoint, Outlook); Python, Java, C; Jupyter Notebook, VS Code, Colab, GitHub, LeetCode; Machine Learning, Data Analysis

**Professional Skills:** Leadership and Team Management, Communication and Diplomacy, Event Planning and Coordination, Research and Analytical Skills, Fundraising and Community Engagement

**Languages:** English, Amharic, Spanish