

Shewit Yonas

Seattle, WA | shewityonas367@gmail.com | linkedin.com/in/shewit-yonas

EDUCATION

Seattle Pacific University Bachelor of Science, Mechanical Engineering — GPA: 3.95 Honors: Full Tuition Distinguished Scholar Award	Seattle, WA Sep. 2024 – Dec. 2026
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TECHNICAL SKILLS

Software Tools: MATLAB, SolidWorks, AutoCAD Civil 3D, Bluebeam, Microsoft Office

Relevant Coursework: System Dynamics, Computer Programming for Engineers, Circuits I, Thermodynamics, Fluid Mechanics, Heat Transfer, Mechanics of Materials, Technical Writing, General Engineering Design, Statics, Dynamics, Mechanical Design

EXPERIENCE

Engineering Intern Furtado & Associates	June 2025 – Aug. 2025 Seattle, WA
<ul style="list-style-type: none">Produced 50+ 2D and 3D CAD drawings from land survey data, including built, landscape, and topographical features using AutoCAD.Drafted and quality-control checked 20 parcel maps for properties affected by Sound Transit's Light Rail expansion projects.Researched legal records, survey data, land titles, and property documents to write 20+ legal descriptions for easements and land acquisitions.	
English Tutor South Seattle College Writing Center	Jan. 2023 – June 2024 Seattle, WA
<ul style="list-style-type: none">Engaged ELL students in daily English practice, improving conversational skills and comprehension.Coordinated schedules for 3+ tutors per shift, ensuring smooth operations and efficient time management.Analyzed student writing patterns to create targeted essay improvement plans across multiple academic subjects.	
Green Jobs Summer Intern Port of Seattle	July 2022 – Aug. 2022 Seattle, WA
<ul style="list-style-type: none">Planned and proposed summer program to educate teens on environmental initiatives and Green Jobs careers in a team of 5.Participated in environmental restoration projects including kelp transplanting and ivy removal.Organized and led meetings; conducted interviews with Port employees on career development and professional growth.	

PROJECTS

SoulUmbra, Semi-Autonomous Solar Energy Collection Robot	Sep. 2025 – Present
<ul style="list-style-type: none">Designed a retractable solar panel mechanism housing three 20 in × 14 in solar panels.Co-developed a lifting system using four linear actuators to raise and lower panels with a projected 100+ lb load capacity.Researching drivetrain configurations for mobility system CAD modeling, selecting motors and major components and planning motion control code.	
Prosthetic Hand Prototype	Mar. 2025 – May 2025
<ul style="list-style-type: none">Designed a 3D-printed palm structure to house motors and support four finger structures and an opposable thumb.Engineered a mechanical linkage system for natural finger curling and inward thumb rotation.3D printed and assembled all mechanical components for integration with the electrical control system.	
Air Conditioner Prototype & MATLAB Performance Model	Mar. 2025 – May 2025
<ul style="list-style-type: none">Built a water-cooled AC prototype using a fan, copper tubing, pump, and ice bath; cooled ambient air from 71°F to 68°F in 13 seconds.Developed a MATLAB model evaluating efficiency, convection coefficients, and heat transfer rates using thermodynamics.	

LEADERSHIP

National Society of Black Engineers, Vice President Seattle Pacific University	Sep. 2025 – Present Seattle, WA
<ul style="list-style-type: none">Lead weekly professional development meetings for 20 members, including industry Q&A sessions and resume/interview workshops.Represent NSBE on the STEM Student Council Board, organizing cross club collaborations and department events.	