

# Shewit Yonas

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## EDUCATION

### Seattle Pacific University

Bachelor of Science, Mechanical Engineering — GPA: 3.95

**Honors:** Full Tuition Distinguished Scholar Award

Seattle, WA

Sep. 2024 – Dec. 2026

## 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

- 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

- 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

- 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

- 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

- 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

- 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

- 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.