

Anaya Patel

Klamath Falls, OR

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EDUCATION

Oregon Institute of Technology (Oregon Tech) – Klamath Falls, OR

Bachelor of Science, Mechanical Engineering (June 2026)

SKILLS

CAD & Design: SolidWorks, AutoCAD, Fusion 360

Simulation & Analysis: ANSYS (Static & Fluent), MATLAB, Simulink

Programming: Python (basic), C (introductory)

Engineering Tools: 3D Printing, CNC Machining, Lathe/Mill Operation, Calipers, Torque Wrenches

Concepts: Fluid Dynamics, Heat Transfer, Thermodynamics, FEA, Design for Manufacturing (DFM)

PROJECTS

Oregon Institute of Technology – Klamath Falls, OR

Capstone Project – “Portable Water Filtration Pump” (October 2024 – May 2025)

- Designed and prototyped a manual water filtration system for off-grid and emergency applications by leveraging SolidWorks, ANSYS, and engineering design principles, resulting in a durable, portable solution capable of achieving a 95% filtration rate.
- Modeled and analyzed pump components using SolidWorks and ANSYS to evaluate structural performance and reliability, informing design improvements prior to fabrication.
- Fabricated a functional prototype through 3D printing and CNC milling while selecting lightweight, corrosion-resistant materials, balancing portability, durability, and manufacturability.

LEADERSHIP EXPERIENCE

Oregon Institute of Technology

Class Representative for Associated Students of Oregon Institute of Technology (ASOIT) (October 2023 – June 2024)

- Represented a student body of 1,000+ students by attending weekly senate meetings and voting on 20+ proposals per academic year related to campus policies, student fees, and event funding.
- Collaborated with 10+ student leaders, faculty, and campus departments to organize initiatives such as voter registration drives, Wellness Week, and club resource fairs, engaging hundreds of students throughout the year.
- Communicated student concerns to administration by gathering feedback through surveys, open forums, and direct outreach, collecting input from 100+ students and helping inform decisions on key campus issues.

WORK EXPERIENCE

Home Depot – Medford, OR

Sales Associate (June 2022 – Aug 2023)

- Assisted customers with home improvement products, explaining technical specs and safe usage
- Managed inventory and helped restock 3 departments, maintaining organization and product availability