

ABDULLAH IBRAHEEM

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SUMMARY

Mechanical engineer (B.S., Seattle Pacific University, June 2026) with hands-on experience across the full product development cycle — CAD design, FEA, material selection, and manufacturing. Led the mechanical sub-team on a multi-sensor smartwatch capstone from initial concept through a waterproof, drop-tested prototype. CSWA certified in SolidWorks, with Python and MATLAB skills that carry over into robotics and automation-adjacent design work.

EDUCATION

Seattle Pacific University <i>B.S. Mechanical Engineering, GPA: 3.5 — June 2026</i>	<i>Seattle, WA</i>
Seattle Central College <i>A.S. in Engineering, Phi Theta Kappa Honor Society — June 2024</i>	<i>Seattle, WA</i>

TECHNICAL SKILLS

CAD & Design: SolidWorks (CSWA Certified), SolidWorks Simulation, GD&T
Analysis: Finite Element Analysis (FEA), Stress Testing, Design Validation
Manufacturing: 3D Printing (FDM), CNC Machining Design, Material Selection
Programming: Python, MATLAB, HTML/JavaScript
Other: Mechanical Assembly, Waterproof Design, Technical Documentation

ENGINEERING PROJECTS

Wayfinder Smart Watch — Mechanical Team Lead <i>Senior capstone: outdoor multi-sensor smartwatch integrating altimeter, barometer, and compass</i> - Led the mechanical sub-team, coordinating weekly deliverables across mechanical, electrical, and software groups - Designed the outer housing, electrical enclosure, and wrist strap mount (54 × 44 × 15 mm, 76 g) with a 15° ulnar tilt for natural wrist alignment - Engineered a ball-detent housing attach/detach mechanism with a 20 mm quick-release strap for field-serviceable electronics - Authored verification & validation test specs (TD001–TD003) covering 5 ft drop impact, ball-detent retention, and intentional removal force - Selected production materials: 316L stainless steel rail, hard-anodized 6061-T6 aluminum housing, Delrin sliding components for corrosion resistance, weight, and machinability - Ran FEA stress analysis on the latch housing and waterproof case assemblies, advancing the design from an IP54 prototype toward an IP67 production target	<i>Sept 2024 – Jun 2026</i>
Water Planter System — Junior Design Project - Designed and built a 5.3-gallon solar-powered automated irrigation system with a tower outlet for controlled water flow 3D-printed all housing components (FDM), iterating tolerances across several revisions to eliminate leak paths - Developed a custom sealant strategy to achieve a full waterproof rating on the printed assemblies	<i>Apr 2025 – Jun 2025</i>
JobHub — Personal Project - Built and self-hosted a full-stack job search platform (Flask, SQLite, Docker) that scrapes Indeed, LinkedIn, and Google on an automated schedule via JobSpy - Added application tracking, recruiter outreach timers, and resume-match scoring powered by the Anthropic API	<i>Apr 2025 – Present</i>

EXPERIENCE

Seattle Central College <i>Administrative Assistant — Information Central & Mitchell Activity Center Nov 2022 – Aug 2024</i> - Supported students and faculty in person and by phone across two campus offices, handling concurrent inquiries with close attention to detail - Managed data entry, document preparation, and filing systems with consistent accuracy - Conducted equipment and facility inspections for cleanliness, safety, and compliance with college standards	<i>Seattle, WA</i>
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