# Carson Adams

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## Education                                                                                           Cumulative GPA: 3.7

**University of Washington Bothell – Bachelor of Science in Electrical Engineering**                    June 2027

## Experience

**Scholar Lead,** Washington State Opportunity Scholarship - Seattle, WA            September 2025 – Present
- Mentor new Opportunity Scholars to navigate WSOS resources and college processes by providing guidance via email, calls, and meetings, hosting community-building events, and sharing scholarship deadlines; help Scholars successfully access resources
- Support Scholars in achieving academic and career goals by guiding mentees through scholarship processes, connecting them to campus services
- Strengthen leadership, communication, and problem-solving skills while building a supportive peer network

**Lead Medical Assistant,** Bellingham Bay Ophthalmology - Bellingham, WA            May 2024 – September 2025
- Assisted surgeons during minor refractive and diagnostic procedures, conducted pre- and post-operative workups, and ensured sterilization and equipment readiness to maintain high standards of patient care
- Provided hands-on training for new technicians in diagnostic testing, surgical assistance, and equipment operation
- Conducted post-operative follow-ups, answered patient questions, pre-op testing, and ensured compliance with healthcare regulations
- Manage patient communications by providing instructions, follow-up guidance, and addressing concerns, and contacting patients with lab results
- Oversaw operational efficiency, monitored patient vitals, and maintained documentation in compliance with HIPAA and clinic standards

## Projects

**Custom Mechanical Keyboard**
- Designed and prototyped a split ergonomic mechanical keyboard using Ergogen, using a 5 x 5 key matrix, and spacing for a custom PCB and improved ergonomics
- Created and iterated multiple 3D-printed enclosure designs, increasing left-hand spacing by 15–20% while preserving switch alignment and structural integrity
- Integrated low-profile switches, microcontroller, battery, and supporting hardware, designing for assembly tolerance, fastener alignment, and cable routing, enabling repeatable fabrication and straightforward assembly
- Soldered low-profile switches, microcontroller, diodes, and supporting components to assemble and validate the custom keyboard PCB

**Aquarium Temperature Tracker**
- Designed and implemented a real-time temperature monitoring system for a saltwater reef tank using an ESP-01 Wi-Fi module and DS18B20 waterproof sensor
- Developed firmware to sample and transmit temperature data hourly over Wi-Fi to a Google Sheets dashboard, supporting 24/7 remote monitoring and historical trend analysis
- Eliminated manual temperature checks, reducing operator intervention while improving detection of thermal drift

**Personal Website**                                                                                    carsonadams.dev
- Designed and developed a responsive personal portfolio website to showcase engineering projects, resume, and contact information, providing a centralized professional presence
- Implemented interactive color-changing UI elements and responsive layouts, ensuring consistent usability across desktop and mobile devices
- Structured content for maintainability, adding as projects evolve

## Skills

**Programming Languages:** Python, Java, HTML, CSS
**Software:** Arduino IDE, MATLAB, Microsoft Office, KiCAD, 3D Printing CAD