

JAMES I. F. WALKER

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PROFILE

Computer Science & Mechanical Engineering double major at Oregon State University (ME Robotic Control option; 3.83 GPA, honor roll every term) with a completed welding degree and structural steel fabrication experience. Comfortable on both sides of a robot — the fabrication floor and the codebase — and seeking paid engineering internships and junior roles.

EDUCATION

Oregon State University — B.S. Computer Science & Mechanical Engineering (in progress, part-time) **3.83 GPA**

ME Robotic Control option; Specialized CS pathway with custom robotics focus. Honor roll every term.

Portland Community College — A.A.S. Welding Technology (2018) **3.72 in-major GPA**

Also awarded: Shielded Metal Arc Welding Certificate (2016); GTAW Certification Prep Career Pathway Certificate (2017). Presidents' List ×4, Deans' List ×3. Ongoing transfer coursework via OSU's Degree Partnership Program.

Coursework: GTAW (mild steel, aluminum, stainless), GTAW pipe welding, GMAW & pulse, FCAW (gas- and self-shielded), SMAW, blueprint reading, structural steel welding codes, fabrication.

EXPERIENCE

Helper 1 | Vigor Works LLC, Clackamas, OR **Feb 2019 – Sep 2019**

Structural steel fabrication on contracts for a major aerospace company, the Department of Defense, and the State of California

- Performed weld preparation and finishing — grinding, deburring, and cleaning parts — with minimal supervision, including prep for automated track welding and post-weld cleanup on structural I-beam sections.
- Operated a hydraulic press to bring out-of-tolerance structural I-beam surfaces back into specification, repairing up to 60 parts per day and reducing material waste.
- Passed welding qualification tests at hire; worked as a temporary Ironworkers union member and passed a background check for defense-related work.

iPhone Repair Technician | Wired iRepair & Caffeine LLC (now The Fix Hut), Portland, OR **Jun 2012 – Oct 2012**

- Diagnosed and repaired customer iPhones at component level, typically returning devices within an hour; explained diagnostic findings and repair options directly to customers.

Bartender / Barback | The Matador and other high-volume Portland venues **2019 – 2026**

- 5+ years of high-volume hospitality work, self-funding both engineering degrees — including solo-run shifts and de facto shift-lead responsibility. Full history on LinkedIn.

SOFTWARE PROJECTS

- Dance Dance Degenerates (team of 4): web rhythm game in Phaser 3 — built the osu! beatmap file parser/normalizer at the game's core and the audio/background asset pipeline; led team project management. Earned 100% and instructor “hall of fame” selection.
- Skills: C++, JavaScript/Node.js, React, x86 Assembly (MASM), Jest/Cypress testing, GitHub Actions CI/CD, Docker, Git.

HANDS-ON TECHNICAL EXPERIENCE

- 3D printing: substantial experience with both FDM (Creality Ender 5 Pro) and resin SLA (Elegoo Saturn), including print preparation and post-processing.
- Electronics: built custom PCs, including converting an RTX 3090 from air cooling to a full-cover water block; board-level console repair (reflowed 4–6 Xbox 360s); soldering, including a car-stereo wiring-harness adapter.
- Mechanical: brake pads, rotors, CV joints, and oil changes on personal vehicles; assisted a manual transmission swap; welded a winch mount onto a trailer; competent with most shop tools; reads welding blueprints.
- CAD: SolidWorks (coursework); exposure to Fusion 360, Tinkercad, and Rhino.