

AW

Amanda Walker

Mechanical Engineer

Mechanical engineer with 7 years across consumer hardware and industrial equipment. Owns parts from CAD through tooling release, with a focus on tolerance analysis, thermal design, and supplier qualification. Comfortable running DFM reviews with overseas factories and walking the line during pilot builds.

CONTACT INFORMATION



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KEY SKILLS

- SolidWorks (CSWP), PDM
- GD&T per ASME Y14.5
- Tolerance stack-up analysis
- ANSYS Mechanical (static, modal)
- DFM/DFA reviews
- Injection molding, sheet metal, machining
- Pilot build support and ECO process
- Thermal modeling (steady-state)
- Python for data reduction

Professional Experience

SENIOR MECHANICAL ENGINEER I HALCYON ROBOTICS, RALEIGH, NC 2021 - PRESENT

- Lead mechanical design for a \$1.4M autonomous floor scrubber program, owning chassis, drivetrain mounts, and battery enclosure from concept through EVT.
- Cut warranty returns on the brush assembly by roughly a third after redesigning the bearing housing and adding a labyrinth seal.
- Run weekly tolerance stack-ups in GD&T to keep door alignment within spec across three injection-molded suppliers.
- Mentor two junior engineers on SolidWorks PDM workflows and design review etiquette.

MECHANICAL ENGINEER II I TRILLIUM OUTDOOR GEAR, ASHEVILLE, NC 2018 - 2021

- Designed aluminum frame components for a backpacking stove line that shipped 42,000 units in its first season.
- Ran FEA on tent pole hubs to size wall thickness, trimming part weight by about 18% without failing drop tests.
- Coordinated with a contract manufacturer in Vietnam, including two factory trips for first-article approval.
- Built a shared library of fastener and o-ring components in SolidWorks that the team still uses.

Education

- B.S. Mechanical Engineering, North Carolina State University, 2018
- EIT, North Carolina (2018)