

Andrew Way

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CORE COMPETENCIES:

- Manager, GoDoBe, HouseOfFoo, & DareToCare LLCs -agricultural process automation. Fullstack IOT device plan, build & implementation for 5 property automation solutions .
- *General Residential/Commercial Contractor:* 28 years in management, estimation, & process evaluation; for teams of 15+ employees on jobs valued in excess of \$300k.
- *Biomedical Research Associate:* 2 years designing experiments & building hardware to characterize aspects of of novel anti-HIV drug delivery systems via spectrology.
- *Optics Technician:* 20+ years working with optical systems in a home-lab; utilizing long-exposure DCG film Holographic techniques, thin-film analysis, & interferometry.
- *Rope-Access Lead:* Design+Implementation lead for rope-access teams to safely repair exterior of helium gas-envelopes on moored Airships while in the air.

WORK EXPERIENCE:

- GoDoBe & Subsidiaries, Los Angeles CA:** *Manager & automation tech.* 2013 - 2026.
Manager & automation sys' engineer, for design+implementation of diverse range of residential & agricultural solutions. Lead estimator, managing 12+ crew members.
- S.F. Glaser Inc, Monrovia CA:** *Lead Rigger/Repair Tech.* 2025 - 2026.
Design & install relay networks & IOT systems for control of clock & bell towers.
Lead safety engineer for rope-access management, & safety-plan implementation.
- Sensitic Technologies, Pasadena CA:** *Optical Sys' Engineer.* 2024 - 2025.
Advanced controls & LOS performance & analysis engineer, specializing in full-stack development of field deployable optical sensors & associated hardware.
- OakCrest Institute of Science, Monrovia CA:** *Research Scientist.* 2023 - 2024.
Optical thin-film analysis, anti-HIV & novel male contraceptive drug development.
Designed & built experimental 16-channel flow spectrographic analytical tool.
- General Contractor, Los Angeles CA:** *Owner Operator.* 1998 - 2023.
25 years in construction management, serving 70+ loyal commercial & residential customers, up-to 15 employees with successful projects valued in excess of \$300K.
- Airship Management Services, N. Carolina:** *Rope Access Technician.* 2002 - 2004.
Rope access engineer, rigger, & crew. Assisting with launch operations & repair of semi-rigid airship N606SA. Tasked with modernizing safety protocols & equipment.

PROJECTS:

- ▲ Tasked with creating a multi-channel microfluidic spectrographic analysis tool for a NIH grant, to characterize porosity of drug-delivery implants through skin-like membranes.
- ▲ Completed a ground-up re-build of a 1965 Seeburg AP2 jukebox that plays 50 full-size 33_{RPM} records, retrofitted for remote operation & control via arduino & a wifi bridge.
- ▲ Built a custom 3-phase table-saw, with VFD control for a five horse-power motor, & micrometer-level fence adj', for custom furniture builds requiring ultra-dense hardwood.
- ▲ Constructed two positive-flow laminar flow-hoods, for creation of dichromated gelatin film plates via spin-coat; & for mycelium substrate inoculation; for matrix study of suitable substrates for indoor growth of *Hericeum americanum/coralloides* mushrooms.
- ▲ Designed, built, & installed custom 720Watt inverter and battery switching system to supply 120VAC for a mobile work truck, to run high-amperage tools off the alternator.

ACADEMICS:

*Transferring to UCLA in fall of 2027.

Pasadena City College: Focus: Laser Tech' & Botany. 1996 - 1999, & 2022 - 2026.

- Associates of Science: Laser Technology.
- Associates of Arts: Humanities.
- Certificate: Laser Technology Program.

SKILLS:

■ *Management:*

Business payroll/accounting, quoting materials / labor for high-value jobs, conflict mediation, long-term business planning strategies for weathering industry changes, & implementation of a system to keep overages at or below 20% from job-to-job.

■ *Cost-estimation:*

Development of cost-estimation strategies that protecting two parties from project overages, while maintaining high-quality workmanship & oversight. Customer retention stayed at ~95% over 10 years, through process tracking & optimization.

■ *Risk-Assessment:*

Development of safety plans for keeping employees safe during high-risk ventures. By taking a scientific approach to safety plan optimization, we had zero incidents requiring hospitalization or severe injury over the 28 year span.

■ *Software:*

Coding for Arduino, AI implem' strategies, virtual machine porting for legacy sys' automation, creating localized/sand-boxed AI systems on portable machines for experimentation in training-data-isolation to prevent hallucinations; extensive work with very-large CSVs in excel, gnumeric & librealc, most comfortable with Linux & open-source.

■ *Shop Hardware:*

Extensive experience diagnosing, repairing, operating, & modifying a wide-range of industrial, laboratory & workshop tools; including but not-limited-to: high/low voltage elec' systems, automation via relay / pneumatic systems, multi-channel microfluidics, spectroscopic/chemical analysis tools. Experienced with most wood/metal-shop tools.

■ *Optics & Optical-Hardware:*

Comfortable with a wide-range of opto-mechanical/metrological hardware, such as: pinhole assemblies, high/low-power laser systems (fiber, gas-tube, diode), safety interlocks, interferometers, op' choppers, spectrometers, repair/op' of Hitachi S4500 scanning electron microscope, sputter coaters, deflectometers, elipsometers, etc'.

HOBBIES & VOLUNTEER POSITIONS:

▲ *Botany, Micology, & MicroBio:*

Collection & identification of native plant species including edible mushrooms; using safe & established characteristic-mapping techniques to make a positive ID.

▲ *Climbing & Mountaineering:*

Accomplished mountaineer, trad rock climber & free solo enthusiast. Have taught professional classes in crevasse-rescue & rope-ascension techniques.

▲ *Holography:*

Holographics entrepreneur, creating analogue/composite holograms of Denyisuk & transmission holograms at home, with homemade DCG plates & thermoplastic films.

▲ *Huntington Gardens Herbarium, Plant Library:*

Worked as a volunteer to prep, mount, label, identify & catalog dried collected plant samples from around the world for botanical study.