Zackary Ace Tileston, EIT

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Project Portfolio: Tileston.net

EDUCATION:

BS in Mechanical Engineering, *University of Arizona, Tucson AZ* **May 2026**
Minor in Mathematics

QUALIFICATIONS & SKILLS:

Software: Revit, AutoCAD, SolidWorks Design Associate Certified, Autodesk Inventor (**10+ years**), ANSYS Fluent fluid dynamics & finite element analysis, web development, programming
Hardware: CNC machining, FDM & SLA 3D printing (**10+ years**), automotive repair, woodworking & carpentry, home & appliance repair, bicycle repair, power tool proficiency
Professional: Eagle Scout, IAAPA, ASTM F24 volunteer, **Engineer in Training** licensure
Projects: 3D printer filament waste shredder, custom E-bike, electromagnetic disc clock (WIP), autonomous curtain rod, hard braking warning system, self-sifting litter box, etc.

RELEVANT EXPERIENCE:

Ride Maintenance Mechanic, *Cedar Point, Sandusky OH* **June 2026 – Oct. 2026**

- Performed inspections, PMs, and emergency repairs on several roller coasters and flat rides.
- Developed practical design judgment by observing the impact engineering decisions have on ease of maintenance, ride reliability, and serviceability.
- Earned certification on 13 rides and fall protection and prevention within 1 operating season
- Prevented significant damage to ride and safety equipment through workplace fire extinguishing

Exhibit Technician, *Tucson Children's Museum, Tucson AZ* **June 2023 – June 2026**

- Developed and implemented a scheduling system for routine preventative maintenance, enhancing operational efficiency of all facilities and minimizing legal liability.
- Completed various projects such as the fairy garden, tractor refurbishment, photo-op frames, dust collection system, paint wall, airways revamp, picnic tables, fiesta room remodel etc.
- Managed full life cycle for 50+ exhibits, extending service life and combating obsolescence.
- Performed on-site mechanical, electrical, and carpentry repairs for all museum exhibitions.
- Responsible for purchasing decisions regarding facility maintenance and construction.

President, *Theme Park Entertainment Group, University of Arizona* **Jan. 2023 – May 2026**

- Led student organization focused on career development and design in themed entertainment.
- Orchestrated events such as ASTM F24 committee meetings and tour of Mattel Adventure Park.
- Volunteered on ASTM F24 task group on Anti-Rollback Devices as note taker and ballot editor.
- Expanded LinkedIn and Instagram engagement with 9300% and 9000% increase, respectively.
- Received high commendations in 2024 Toronto Metropolitan University Thrill Design Invitational.
- Coauthored "Use of Telemetry to Track Ride Systems" for the 2023 ITC conference.

Attractions Operations Intern, *Silver Dollar City, Branson MO* **May 2025 – Aug. 2025**

- Earned operator certification, being responsible for safety and performance of all hosts on dock.
- Scored 98% on performance evaluation by prioritizing guest experience, safety, and efficiency.
- Excelled in time management and flow while ensuring guest safety, efficiency, and satisfaction.