Miles Silverman

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EDUCATION

USC Viterbi School of Engineering Los Angeles, CA

Bachelor of Science, Civil Engineering. Intended Minor: Real Estate Development, USC Price School of Public Policy. Expected June 2030

Relevant Coursework: Calculus III, Introduction to Civil Engineering, Architecture I and II (3D modeling, design development, fabrication), Macroeconomics

SKILLS

Technical: Rhino 3D (3D modeling, design development, fabrication), Microsoft Office Suite, HTML, AI tools
Competencies: Project Support and Coordination, Research and Data Analysis, Written and Verbal Communication, Civic Advocacy

EXPERIENCE

Installation and Project Support March 2024 – August 2026

Contract Decor, Inc. *Los Angeles, CA*

- Completed full installation process across approximately 10 commercial, governmental, and educational facilities: removed existing systems and mounted new window covering systems across multiple rooms per site.
- Supported project management on commercial and educational Tenant Improvement projects, coordinating material receipt and installation from start to finish.

Window Washing Business Owner June 2023 – July 2025

Self-Employed *Los Angeles, CA*

- Launched and operated an independent window washing business, acquiring approximately 20 clients through door-to-door outreach and consistent client communication.

PROJECTS

Electric Island: Neighborhood Blackout Power-Sharing System October 2026

Co-Developer, 1st Place — Dual-Use Hackathon (60 teams)

- Co-developed in 48 hours a system of automatic islanding switches at homes, transformers, and utility poles that lets neighbors share power from home batteries, EVs, and solar during a blackout, keeping an entire block powered.
- Designed a battery strategy that holds an emergency reserve (~10 kWh) in each island battery while remaining capacity charges on low-cost power and sells back at peak demand, giving homeowners a financial incentive to opt in.
- Won 1st place pitching the concept to judges; afterward built and deployed an interactive grid simulator website and reviewed prior-art patents to define the design's novelty.

Friendly Neighborhood: Wildfire Water System Protection Valve September 2026

Team Lead, 2nd Place — Origin Weekend (46 teams)

- Led a team to design a heat-triggered shutoff valve at each home's water meter that seals off burning structures, preserving hydrant pressure for firefighters and preventing post-fire chemical leaching into the water system.
- Designed backflow protection and fail-safe shutoff using certified components; verified all pressure, force, and flow rates with engineering calculations; documented $382-442M in water system damage across six wildfires.
- Design priced at $460-950 per home, aligned with LADWP's specifications.

ACTIVITIES & LEADERSHIP

USC Engineers Without Borders (EWB), Institute of Transportation Engineers (ITE), ASCE, Trojan Real Estate Association (TREA) August 2026 - Present

Member

- Active member of four USC student organizations spanning civil engineering, transportation, and real estate.

Culver City Civic Assembly July 2026

Selected Participant

- Competitively selected for a city-convened assembly focused on improving Culver City's budget-making process; contributed recommendations alongside residents from diverse backgrounds.

Metro Youth Council January 2024 - December 2024

Advisory Board Member

- Competitively selected to attend monthly meetings with Metro LA department leads; developed peer recommendations on system safety, homelessness, and crime reduction.

Religious Action Center / L'taken February 2024

Participant

- Researched green spaces and academic focus; presented findings and advocated for green space funding directly to Congresswoman Sydney Kamlager in Washington, DC.

AWARDS & HONORS

- Presidential Volunteer Service Award: 3-time recipient (2022, 2023, 2024)
- California Scholarship Federation and Honor Roll: 8 semesters (August 2022 - June 2026)