

Alfredo Montes

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Accreditation & Training

Stone Inspection and Troubleshooting Workshop

Las Vegas, NV — April 2026

- Certified Stone Inspector
- Flooring installation and substrate evaluation (concrete slabs, wooden subfloors)
- Moisture prevention, testing, and maintenance
- Stone geology, identification, and testing standards; quarrying
- Stone cleaning chemistry; stain identification and removal; sealer selection and application

The Flooring Education Symposium

Dalton, GA — October 2025

- Materials testing
- Moisture testing fundamentals
- IICRC standards and certifications
- Inspection, assessment, and evaluation
- Inspection techniques and observational methodology
- Causes and remedies of concrete slab imperfections

World of Concrete

Las Vegas, NV — January 2025

- ICRI Concrete Slab Moisture Testing Technician Certification – Grade 1
- Standards covered: ASTM F710-22, F1869-23, F2170-19a, F2659-23, F3191-23

Education

University of California, Irvine

B.S. in Materials Science and Engineering (MSE) — June 2020

Relevant Coursework

Ceramic Materials	Microstructure, properties, applications, and mechanical testing of ceramic materials.
Design Failure Investigation	Investigation of material failures using non-destructive instruments; failure mode interpretation and redesign based on actual case histories.
Materials Selection & Design	Optimized selection of ceramics and other materials based on aesthetics, application requirements, and environmental performance factors.
Polymeric Materials	Polymer structures, mechanical properties, synthesis methods, and applications including epoxy thinsets, polymeric sealers, and elastomeric sealants.
Fundamentals of Materials Processing	Manufacturing processes for ceramics and other materials; processing fundamentals, transport phenomena, and mechanical forces.
Communications in the Professional World	Technical writing and oral reporting on engineering topics for diverse audiences.

Projects

American Football Helmet Pad Using Lattices

UCI Senior Design Project — Fall 2019 – Spring 2020

- Material research: used CES EduPack software to identify optimal materials within specific design criteria
- Lattice design: used nTopology software to simulate impact forces on a 3D model using lattice template structures

Work Experience

Paley Stone and Tile Forensics — Santa Ana, CA

Natural Stone, Ceramic Tile, Concrete, and Paver Inspector — February 2024 – Present

Black Belt Collective Krav Maga — Fountain Valley, CA

Self-Defense Instructor — July 2019 – Present

Elite Protective and Investigative Services Group — Various Locations

Security Guard — February 2022 – November 2023