



Instructor Resume

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Professional Summary

Bilingual Mechanical and Electrical Engineer with over 30 years of diverse experience across engineering, technical trades, and education. Demonstrates a unique blend of field expertise and instructional skill, with a strong background in construction systems, factory operations, and vocational instruction. Since 2014, has developed state-approved Continuing Education (CE) courses for electricians, HVAC professionals, plumbers, and other trades through 1st Choice CE. Proven ability to translate complex engineering concepts into engaging and accessible training content for adult learners in multiple disciplines.

Education

Universidad Autónoma de Guadalajara — Guadalajara, Jalisco, Mexico

Bachelor of Science in Mechanical and Electrical Engineering (1978)

University of St. Thomas — Houston, TX

Teacher Certification in Bilingual Education (1996)

Stephen F. Austin State University — Nacogdoches, TX

Deficiency Plan in Bilingual Education (1999)

Continuing Education Course Development

1st Choice CE | Houston, TX

Course Developer (2014–Present)

- Created and maintained online CE courses for electrical, plumbing, HVAC, cosmetology, and towing professionals across multiple U.S. states.

- Responsible for writing curriculum based on state-specific code requirements such as the NEC, IPC, IMC, and others.
- Applied technical expertise in engineering and construction to ensure course accuracy and relevance.
- Developed assessments, multimedia content, and compliance documentation for licensing boards.
- Since 2019, specialized in electrician CE content including NEC code updates, safety practices, and business operations.

Teaching & Instructional Experience

Professional Bilingual Educator | Houston, TX

Grades 1–9, Various Public Schools (1995–1997, 2000–2013)

- Taught math, science, language arts, and social studies to diverse classrooms of 20–30 students.
- Designed lesson plans tailored to bilingual and ESL learners.
- Led curriculum development aligned with TEKS standards and implemented classroom technology.

Engineering & Technical Experience

Constructora Del Oeste | Guadalajara, Jalisco

Resident Engineer – Water & Drainage Systems (1978–1980)

- Supervised installation of municipal water and sewer infrastructure.
- Directed excavation and backfill crews; responsible for slope calculations and topography.

Comisión Forestal, Estado de Jalisco

Construction Evaluator (1980–1984)

- Reviewed development proposals; issued permits based on environmental and reforestation feasibility.

Muebles El Gallo | Guadalajara, Jalisco

Founder & General Manager – Furniture Manufacturing (1984–1994)

- Managed factory design and full electrical/pneumatic/plumbing layout.
- Oversaw staffing, equipment, budgeting, production scheduling, and vendor relations.

Industrializadora Juvalma | Guadalajara, Jalisco

Partner & Technical Advisor – Coconut Processing (1992–1994)

- Supervised installation of industrial machinery and facility infrastructure.
- Led production, forecasting, and maintenance operations.

Additional Professional Experience

Kids PC | Houston, TX

Sales & Distribution (1998–2000)

- Marketed bilingual educational software to school districts.
- Presented product demonstrations to administrators and educators.

Skills & Abilities

- Bilingual: Fluent in English and Spanish
- Technical: Proficient in Microsoft Office, Quicken, Smartboard systems
- Instructional: Experienced in creating curriculum for academic and vocational learning
- Engineering: Strong knowledge of NEC, IMC, IPC, plumbing and electrical code
- Soft Skills: Adaptable, organized, collaborative, and committed to educational excellence