

Curriculum Vitae
C. L. (Marty) Long, Jr., P.E.
Thornhill, Ramirez & Associates, Inc.
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Citizenship: US

Registered Professional Engineer: Texas License No. 44993

Fields of Specialization:

Heavy industrial equipment, oilfield exploration, well servicing and production equipment and services, safety, structures, kinematics and dynamics, controls, instrumentation, machine design, accident reconstruction

Education:

B.S., Mechanical Engineering, With Honors, The University of Texas at Austin, 1974

Forensic Engineering education (partial list):

Accident reconstruction:

- ◆ Advanced Commercial Vehicle Accident Investigation and Reconstruction
Course taught by the Law Enforcement and Security Training Division, Texas Engineering Extension Service, The Texas A&M University System
- ◆ Traffic Signal Workshop
Course taught by the Traffic Institute, Northwestern University

Product liability:

- ◆ Over thirty-five years consulting and industrial experience

Additional technical short courses attended (in relevant technical areas):

Statistical Methods in Manufacturing Engineering, Finite Element Methods, Vibration Damping, Computer Methods in Numerical Analysis, Dynamic Systems Analysis, Digital Signal Processing

Professional Society Memberships:

American Society of Mechanical Engineers (ASME)
Society of Automotive Engineers (SAE)
Society of Manufacturing Engineers (SME)
Associate Member of International Electronic and Electrical Engineers (IEEE)
American Welding Society (AWS)
Accredited Traffic Accident Reconstructionist (ACTAR) No. 1146
National Fire Protection Association (NFPA)

Employment History	Date	Experience
Vice President of Engineering Integra Group Moscow, Russia	06/07-10/10	◆ Services and products for the petroleum exploration, well servicing and production
Engineering Consultant Lago Vista, Texas	3/99-5/07	◆ Consulting for drilling contractors and major oil companies regarding the repair, use, certification, safety and suitability of oil well drilling and well servicing equipment and structures

Employment History (continued)	Date	Experience
Forensic Engineer Thornhill, Ramirez & Associates, Inc. Leander, Texas	3/99-present	♦ Forensic engineering involving vehicular accident reconstruction and product liability
President/CEO Skytop Brewster Co. Victoria, Texas	12/94-2/99	♦ Design and manufacture of heavy industrial equipment for the petroleum exploration, production and refining industries
Chief Engineer Skytop Brewster Co. Victoria, Texas	5/90-12/94	♦ Design and manufacture of heavy industrial equipment for the petroleum exploration, production and refining industries
Self Employed Victoria, Texas	11/89-5/90	♦ Consulting services for heavy industrial equipment and computer manufacturers
President Long Engineering Inc. Victoria, Texas	9/79-11/89	♦ Provide engineering, design and programming services for the petroleum, chemical, and petrochemical industries ♦ Design and build test equipment for the military and the electronic, computer, and automotive manufacturing industries ♦ Design and build automated manufacturing equipment for the electronic, computer, and automotive industries
Senior Associate Engineer IBM Austin, Texas	9/74-9/79	♦ Machine design and analysis ♦ Kinematic and dynamic analysis ♦ Experimental modal analysis ♦ Numerical methods for engineering analysis
Engineer E.I. Dupont de Nemours Co. Sabine River Works Orange, Texas	1/74-9/74	♦ Engineering support for the operation and maintenance of a methanol production and refining area ♦ Engineering support for the operation and maintenance of a power plant area

Publications:

- 1) Joe Thornhill, Ciro Ramirez, and C. L. "Marty" Long, "Night-time Visibility Studies and Digital Photography," presented at the F³T² Conference, Houston, September, 2006.
- 2) R. J. Thornhill, C. N. Ramirez, and C. L. Long, Jr., "Forensic Engineering Case Studies of Machinery Product Designs," presented and published at the ASME 2002 International Congress & Exposition, New Orleans, November, 2002.