



**ME**  
**MELLOR**  
ENGINEERING [imellor@mellor-eng.com](mailto:imellor@mellor-eng.com)  
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## **Ian C. Mellor, P.E., S.E.**

### **Executive Summary**

A licensed Civil and Structural Engineer with extensive experience in the evaluation and design of wood, steel, masonry, concrete, light gage steel and fiber reinforced polymer structures. Construction types include mixed-use, retail, small and large custom homes, commercial construction, low to mid rise buildings, historic buildings, tenant improvements, public school buildings and DOD/NAVFAC design-build military support facilities. Buildings designed on shallow and deep pile foundations and stone column pile foundation.

Skilled in forensic engineering for construction defect litigation claims, insurance claims cause and origin evaluations and seismic evaluation and rehabilitation of existing buildings. Skilled in evaluation of damage to structures from natural disasters and from man-made causes and in providing repair drawings. Skilled in property condition assessments. Experience includes project management and team collaboration.

### **Professional Experience**

**Mellor Engineering** – San Diego, CA – **2015 – Present**      **Principal Structural Engineer, President**

**Independent Consultant** – San Diego, CA    **May 2014 – Present**

**Structural Engineer / Consulting Engineer Collaborating With MJ Structural Engineers, Wildman & Morris, Patterson Engineering, Group Delta.**

Consulting engineer for new and existing residential and commercial building projects. Design of roof top mounted antenna arrays with fiber reinforced polymer frames. Design of residential remodel and new construction. Evaluation of amusement park rides.

**Centraus Structural Consulting** – Christchurch, Canterbury, New Zealand **March – May 2014**

**Structural Engineer / Senior Consultant**

Consulting engineer for post-earthquake evaluations and design for Christchurch rebuild after 2010 and 2011 earthquakes. Evaluate and determine the extent of structural damage to residential buildings to meet the Ministry of Business Innovation and Employment (MBIE) Guidance requirements. Evaluate and determine damage to commercial buildings and prepare detailed engineering reports to meet the requirements of the Canterbury Earthquake Recovery Authority (CERA).

**Rimkus Consulting Group Inc.** – San Diego / Santa Ana, CA /

**2013 - 2015**

**Structural Engineer / Senior Consultant**

Consulting engineer for insurance investigations and construction claims litigation. Evaluation of damages and technical report preparation. Travel throughout the United States to determine cause and origin of damage regarding earthquakes, tropical storms/hurricanes/tornados, wind, flood, structure fires, wild land fires, vehicle impacts, explosions, construction vibrations, expansive soils, slope failures, waterproofing/moisture intrusion, and structure collapse. Design and detail repairs to damaged buildings. 2010 Mineral Virginia earthquake Louisa County School District evaluation and repair of 14 buildings. Hurricane Irene 2011, Hurricane Isaac 2012, Storm/Hurricane Sandy 2012. 2014 American Canyon Earthquake.

**Miyamoto International** – Haiti / San Diego / Santa Ana, CA

**March 2010 – August 2010**

**Structural Engineer / Project Manager**

Post-Earthquake disaster relief efforts. Damage evaluation and assessment of various structure types. Assist in building repair and reconstruction efforts. Low rise and multi-story California school buildings and facilities. Design and detailing of hotel complex, Port-au-Prince, Haiti.

**Wildman & Morris, Architect, Engineers, Consultants** - Ramona, CA

**2007 - 2010**

**Structural Engineer / Project Manager**

Design of low-rise & multi-story federal government buildings & facilities. Renovation of existing government buildings. Design of custom residential homes. Coordination and communication with clients and design team. Seismic rehabilitation of existing historic government buildings.

**Curry, Price, Court Structural & Civil Engineers** - San Diego, CA

**2001-2007**

**Project Engineer, Construction Defect Litigation Engineer**

Design and detailing of low-rise and multi-story commercial and municipal buildings, government facilities and schools. New and existing construction evaluation and design.

Evaluation and design of high end custom residential homes and commercial tenant improvements. Seismic evaluation and retrofit of unreinforced masonry buildings, historic buildings. Forensic investigation, physical inspection and technical report preparation for defense construction defect litigation, review of plaintiff structural reports and calculations.

#### **Professional licenses:**

**California Structural Engineer** - No. 5367  
**Nevada Civil and Structural Engineer** - No. 021139  
**Hawaii Structural Engineer** - No. 14344-S  
**Oregon Civil and Structural Engineer** - No. 85281PE  
**Louisiana Professional Engineer** - No. 37445  
**Mississippi Professional Engineer** - No. 21420

**California Professional Civil Engineer** - No. C62244  
**Arizona Professional Civil Engineer** - No. 40722  
**Washington Civil and Structural Engineer** - No. 47992  
**Virginia Professional Engineer** - No. 04002050309  
**New York Professional Engineer** - No. 091877

#### **Education:**

**University of Arizona**  
Bachelor of Science, Civil Engineering

Tucson Arizona  
1997

#### **Additional Skills**

Enercalc, Risa 2D, AutoCad, Microsoft Word, Microsoft Excel, Microsoft Outlook, Microsoft Powerpoint, BlueBeam, AdobeAcrobat Pro.

#### **Professional Memberships / Activities**

Governor's Office of Emergency Services Safety, Assessment Program Disaster Service Worker (DSW) Volunteer-registration No. 61462, Structural Engineers Association of San Diego (SEAOSD), Structural Engineers Association of California (SEAOC), PADI Advanced Certified SCUBA Diver

#### **Selected Projects**

*School Buildings damaged by the August 23, 2011 Magnitude 5.8 Virginia Earthquake.*

Louisa County Schools, Louisa, Virginia Evaluation of approximately 20 school buildings comprising of unreinforced masonry, and un-braced steel framed buildings.

*Haiti Post Disaster Relief Effort Subsequent to the January 12th, 2010 7.0 Magnitude Earthquake.*

UN 100,000 - Damage assessments for 100,000 units initially then 200,000 + units in and around the Port-au-Prince area.

UN 500 and MINUSTAH 500 - Provided on-site assessments, evaluations and repair advice for the United Nations in Haiti.

*Department of Defense (DOD, Navy, NAVFAC)-(concrete, masonry, structural steel, light gage steel)*

Mine Warfare Training Center, Naval Base point Loma , San Diego, CA Modernization and upgrade and seismic evaluation of an existing 3 story building, two new classroom and training buildings with ancillary structures on Pile foundations. Seismic evaluation per ASCE 31-03 & ASCE 41-06, USGBC LEED silver certification project, 2008 project cost: \$35,800,000.

1st Marine Logistics Group, Marine Corps Base Camp Pendleton, CA Multiple CMU buildings with structural steel floor framing and light gage steel roof trusses. USGBC LEED silver certification project, 2009 project cost: \$20,800,000.

*San Diego Unified School District projects (Masonry, light gage steel, structural steel, wood)*

Mission Bay High – Total 2002 project cost: \$5,500,000, Adams Elementary – 2003 project cost: \$2,000,000. Bayview Terrace Elementary – Total 2002 project cost: \$2,300,000, Birdock Elementary –2002 project cost: \$1,300,000. Crown Point Elementary – Total 2002 project cost: \$2,000,000, Rolando Elementary – Total 2003 project cost \$3,400,000.

#### *Historic Building Projects*

North Park Theatre – San Diego, CA – Seismic rehabilitation design for a concrete and steel theatre facility with a two story unreinforced masonry mixed use commercial facility, constructed in 1928. 2003 seismic retrofit project cost: \$550,000.

Fox Theatre – Fullerton, CA – Rehabilitation study for historic unreinforced masonry theatre. 2007 retrofit cost: \$2,000,000.

Naval Training Center (NTC) Promenade at Liberty Station – San Diego, CA - 26 buildings built in the 1920's era. Total 2007 project cost: 20 to 30 million U.S. dollars.