



Ian C. Mellor, P.E., S.E.

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Professional Experience:

Mellor Engineering – San Diego, CA August 2015 - present

Independent Consultant – San Diego, CA May 2014 - Present

Structural Engineer / Consulting Engineer for MJ Structural Engineers, Wildman & Morris, Patterson Engineering, Group Delta

- CONSULTING ENGINEER
 - New building design.
 - Evaluate existing conditions for construction claims projects.
 - Evaluate amusement park rides.
- STRUCTURAL ENGINEERING, DESIGN & DETAILING
 - Roof top mounted antenna arrays.
 - Fiber Reinforced Polymer roof top frames for telecommunications antennas.
 - Wood, Concrete, Masonry, Structural Steel, Light Gage Steel.
 - Residential custom home remodels and new construction
 - Multi story wood framed residential dwelling buildings

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

Structural Engineer / Senior Consultant

- CONSULTING ENGINEER POST EARTHQUAKE EVALUATIONS AND DESIGN FOR CHRSTCHURCH REBUILD AFTER 2010 AND 2011 EARTHQUAKES.
 - New building design to meet new building standard requirements.
 - Investigate and determine the extent of structural damage to commercial buildings and prepare structural evaluation detailed engineering reports to meet the requirements of the Canterbury Earthquake Recovery Authority (CERA).
 - Investigate and determine extent of damage to residential structures and prepare repair recommendations to meet the Ministry of Business Innovation and Employment (MBIE) Guidance document requirements.

Rimkus Consulting Group Inc. – San Diego / Santa Ana, CA / 2010 – September 2014

Structural Engineer / Senior Consultant

- CONSULTING ENGINEER FOR INSURANCE INVESTIGATIONS AND CONSTRUCTION CLAIMS LITIGATION.

- Investigate and determine the cause and origin of damage to residential and commercial structures from various potential causes and prepare written reports.
 - Earthquakes
 - Tropical storm/Hurricane/ Tornado
 - Wind
 - Floods
 - Structure Fires / Wildland Fires
 - Vehicle Impacts
 - Slope Failures / Retaining Walls
 - Expansive Soils
 - Waterproofing / moisture intrusion / roofing
 - Structure Collapse
 - Construction Vibration
- Design and detail repairs for damaged structures
- Mineral Virginia Earthquake 2010, damage evaluations and repair recommendations for Louisa County School District buildings
- Tornado Damage evaluations, St. Louis – 2011
- Damage Evaluations for Hurricane Irene 2011, Hurricane Isaac 2012, Storm Sandy 2012
- American Canyon earthquake damage evaluations, Napa Valley, CA - 2014

Miyamoto International – Haiti / San Diego / Santa Ana, CA March 2010 – August 2010

Structural Engineer / Project Manager

- POST EARTHQUAKE DISASTER RELIEF EFFORTS – HAITI
 - Seismic Structural Engineering Expertise
 - Damage Assessment and Evaluation of Structures
 - Assist in Building Repair and Reconstruction Efforts
- STRUCTURAL ENGINEERING, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel, Light Gauge Steel Framing
 - Low-Rise & 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

- STRUCTURAL ENGINEERING, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel, Light Gauge Steel Framing
 - Low-Rise & Multi-Story Federal Government Buildings & Facilities
 - Renovation of Existing Government Buildings.
 - Custom Residential Homes
- SEISMIC RETROFIT & STRUCTURAL ANALYSIS, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel, Light Gauge Steel Framing

- Single Story & Multi-Story Existing Federal Government Buildings.
- COORDINATION & COMMUNICATION WITH ARCHITECTS & CONSULTANTS

Curry, Price, Court Structural & Civil Engineers - San Diego, CA **2001-2007**

Project Engineer, Construction Defect Litigation Engineer

- STRUCTURAL ENGINEERING, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel, Light Gauge Steel Framing
 - Low-Rise & Multi-Story Commercial & Municipal Buildings.
 - Government Facilities & Schools.
 - Single Story & Multi-Story Custom Residential Homes.
 - Renovation of Existing Commercial Buildings & Residential Homes.
 - Tenant Improvement Projects.
- SEISMIC RETROFIT & STRUCTURAL ANALYSIS, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel, Light Gauge Steel Framing
 - Historic Buildings.
 - Un-Reinforced Masonry Commercial Buildings.
 - Single Story & Multi-Story Commercial Buildings.
- FORENSIC INVESTIGATION, PHYSICAL INSPECTION & REPORT PREP.
 - Single & Multi Family Wood Framed, Multi Story Steel Frame Buildings
 - Insurance Earthquake Damage Claims.
 - Fire Damage Repair.
 - Construction Defect Litigation Defense for Developer's Insurance Claims.
 - Review & Assessment of Plaintiff Structural Reports, Repair Drawings & Calculations.
- COORDINATION & COMMUNICATION WITH ARCHITECTS & CONSULTANTS

GNR Engineering – Solana Beach, CA **2000-2001**

Project Engineer

- STRUCTURAL ENGINEERING, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel
 - Car Dealerships, Churches & Custom Homes.
 - Government Facilities & Schools.
- COORDINATION & COMMUNICATION WITH ARCHITECTS & CONSULTANTS

Dunn Savoie Inc. Structural Engineers – Oceanside, CA **1998-2000**

Project Engineer, Construction Defect Litigation Engineer

- STRUCTURAL ENGINEERING, DESIGN & DETAILING
 - Wood, Concrete, Masonry, Structural Steel
 - Low-Rise & Multi-Story Commercial & Municipal Buildings.
 - Single Story & Multi-Story Custom Residential Homes.
 - Tennant Improvement Projects.
- FORENSIC INVESTIGATION, PHYSICAL INSPECTION & REPORT PREP.
 - Single & Multi Family Wood Framed Buildings
 - Construction Defect Litigation for Plaintiff Claims.
 - Plaintiff Structural Reports, Repair Drawings & Calculations.
- COORDINATION & COMMUNICATION WITH ARCHITECTS & CONSULTANTS

J.W. Warren Builders – Bury St. Edmunds, Suffolk, England

1985-1998

General Construction Apprentice

- GENERAL CONSTRUCTION SERVICES
 - Excavation, Foundation Work, Brick Laying, Roofing, Rough & Finish Trades

Professional licenses:

California Structural Engineer	License No. 5367
California Professional Civil Engineer	License No. C62244
Nevada Civil and Structural Engineer	License No. 021139
Arizona Professional Civil Engineer	License No. 40722
Hawaii Structural Engineer	License No. 14344-S
Washington Civil and Structural Engineer	License No. 47992
Oregon Civil and Structural Engineer	License No. 85281PE
Virginia Professional Engineer	License No. 04002050309
Louisiana Professional Engineer	License No. 37445
New York Professional Engineer	License No. 091877
Model Law Structural Engineer Designation - National Council of Examiners for Engineering and Land Surveying (NCEES)	

Education:

University of Arizona	Tucson Arizona
Bachelor of Science, Civil Engineering	1997

Computer Skills

Enercalc, Risa 2D, AutoCad, Bentley Microstation, Microsoft Word, Microsoft Excel, Microsoft Outlook, Microsoft Powerpoint, Ram Beam, Adobe Acrobat Pro

Professional Activities / Memberships

Governor's Office of Emergency Services Safety
Assessment Program Disaster Service Worker (DSW) Volunteer Registration No. SAPV61462
Structural Engineers Association of San Diego (SEAOSD)
Sustainable Design Committee Member (SEAOSD)
Structural Engineers Association of California (SEAOOC)
San Diego Fine Woodworkers Association
PADI Advanced Certified SCUBA Diver

Selected Projects

Seismic and Structural Evaluation of School Buildings damaged by the August 23, 2011 Magnitude 5.8 Earthquake Near Mineral Virginia.

Louisa County Schools
Louisa, Virginia

Damage assessment and evaluation of approximately 20 school buildings comprising of unreinforced masonry, and un-braced steel framed buildings. Performed on site damage evaluation and developed appropriate repair design and details methods for each building.

Haiti Post Disaster Relief Effort Subsequent to the January 12th, 2010 7.0 Magnitude Earthquake with Epicenter Near Leogane, Haiti.

UN 100,000

Damage assessments for 100,000 units initially then 200,000 + units in and around the Port-au-Prince area. Advise and assist local Haitian evaluators and engineers trained by Miyamoto International staff. Performed on site advisement and damage assessments with local evaluators.

UN 500

Provided on site seismic structural engineering damage assessments, evaluations and repair advice for Haitian national United Nations employees in the Port-au-Prince and surrounding areas

MINUSTAH 500

Provide on site seismic structural engineering damage assessments, evaluations and repair advice for international (non-Haitian) United Nations employees and for all of the UN base camps in Haiti. Traveled to the regions to evaluate all essential buildings for the United Nations at locations including, but not limited to Port-de-Paix, Cap Hatien, Forte Liberte, Jacmel, Hinch and Le Cayes.

Department of Defense (Navy, NAVFAC)(concrete, masonry, structural steel, light gauge steel)

Mine Warfare Training Center
Naval Base point Loma
San Diego, CA

Modernization and upgrade of existing facilities for 4 existing buildings, seismic evaluation of an existing 3 story building, two new classroom and training buildings with ancillary structures. Pile foundations in liquefiable soils support CMU classroom and training buildings. Performed Seismic evaluation of existing three story steel frame building per ASCE 31-03 & ASCE 41-06 USGBC LEED silver certification project
Total 2008 project cost: \$35,800,000.

Special Boat Team 12
Operational Storage Facility
Naval Amphibious Base Coronado

Coronado, CA

Two story steel frame structure for a 40,000 square foot storage facility. Stone column densification of liquefiable soils supports building foundation system. USGBC LEED silver certification project
Total 2009 project cost: \$10,498,000.

1st Marine Logistics Group
Marine Corps Base
Camp Pendleton, CA

Multiple CMU bearing wall buildings on conventional shallow foundations with structural steel floor framing and light gage steel roof trusses. The four buildings are part of a larger campus plan for the 1st Marine Logistics Group – 7th Engineer Support Battalion (ESB), Combat Logistics Regiment 1 (CLR-1), Combat Skills Training (CST) and Military Police Company (MP).
USGBC LEED silver certification project
Total 2009 project cost: \$20,800,000.

Repairs to Building 57
Naval Base San Diego
San Diego, CA

Renovation of existing building 57 in the Historic District of Naval Base San Diego. Structural evaluation of the existing 2 story 1940's era building for attachment & support of architectural, mechanical, electrical and means of egress components (stairs).
Total 2008 project cost: \$8,000,000.

Repair and Modernize
Building 55
Naval Base San Diego
San Diego, CA

Structural seismic rehabilitation and renovation of existing building 55 in the Historic District of Naval Base San Diego. Structural evaluation and seismic retrofit of 1940's era reinforced concrete and wood framed buildings.
Total 2010 project costs: \$14,000,000.

San Diego Unified School District projects (Masonry, light gauge steel, structural steel, wood):

Mission Bay High –

Modernization and upgrade project with new classroom and library structures.
Total 2002 project cost: \$5,500,000

Adams Elementary–

Modernization and upgrade project with new Library structure.
Total 2003 project cost: \$2,000,000.

Bayview Terrace Elementary –

Modernization and upgrade with new library structure.
Total 2002 project cost: \$2,300,000.

Birdock Elementary–

Modernization and upgrade with new library structure.
Total 2002 project costs: \$1,300,000.

Crown Point Elementary –

Modernization and upgrade project with new library structure.
Total 2002 project cost: \$2,000,000.

Muirlands Middle–

Modernization and upgrade of existing classrooms.
Total 2002 project cost: \$1,300,000.

Rolando Elementary –

Modernization and upgrade project with new library structure.
Total 2003 project cost \$3,400,000.

Historic Theatre Projects:

North Park Theatre – San Diego, CA – Structural engineering and prime consultant services for the investigation, evaluation and seismic rehabilitation design for a concrete and steel theatre facility combined with a two story unreinforced masonry mixed use commercial facility, constructed in 1928. Approximate 2003 seismic retrofit project cost: \$550,000.

Fox Theatre – Fullerton, CA – Rehabilitation study for historic unreinforced masonry theatre, a two story unreinforced mixed use facility and adjacent one story unreinforced masonry retail facility, constructed in

1924. Structural engineering services including site investigations, structural engineering evaluations and analysis and development of seismic and structural rehabilitation schemes and drawings. Approximate 2007 seismic retrofit cost: \$2,000,000.

Historic Building Projects:

Naval Training Center (NTC) Promenade at Liberty Station – San Diego, CA

Seismic and structural engineering, rehabilitation and re-use of 26 buildings built in the 1920's era. Total 2007 project cost: 20 to 30 million U.S. dollars.

Old Spaghetti Factory / Dussini – San Diego, CA

Seismic investigation and restaurant renovation of structure designed by Hebbard & Gill Architects, built in 1898. Total 2005 project cost: \$1,200,000.

Marine Corps Recruit Depot Officer's Quarters – San Diego, CA

Seismic retrofit of five two story residences. Total 2006 project cost: \$1,500,000.

San Diego Aerospace Museum

Additions and alterations to entrance and kitchen. Total 2004 project costs: \$25,000.

530 Sixth Ave – San Diego, CA – Seismic retrofit of one story unreinforced masonry office building. 2006 Seismic retrofit cost: \$30,000.

Unreinforced Masonry Retrofit Projects:

St. Augustine High School – San Diego, CA

Seismic retrofit of 1920's era buildings. Total 2006 project cost: \$30,000.

Academy of Our Lady of Peace – San Diego, CA

Seismic retrofit of Chapel, residence and classroom buildings.

1917 India Street (Boehm Building) – San Diego, CA

Seismic retrofit and remodel of 1920's era historic theatre in Little Italy. Total 2003 project costs: \$200,000.

Mission Hills Methodist Church – San Diego, CA

Seismic retrofit of 1917 Church. Total 2006 cost: \$114,000.

Harbor View Chateau – San Diego, CA

Seismic retrofit of 1920's era brick building. Total 2005 project cost: \$20,000.

Custom Home Projects:

Necochea residence – Ramona, CA

Custom wood framed one story structure with heavy clay tile roof. Total 2008 project cost: \$600,000.

Struyk Residence – San Diego, CA

Basement foundation wall strengthening and two story addition. Total 2006 project cost: \$600,000.

Mansfield Residence – San Diego, CA

Masonry and concrete sub structure with wood framed garage on top built into a steep hillside. Total 2001 project cost: \$500,000.

Harari residence – San Diego, CA

Remodel of hollow clay tile residence utilizing steel moment frame. Total 2001 project cost: \$40,000.