

DAVID G. SHREVE, P.E.
CURRICULUM VITAE
July 14, 2022

EDUCATION AND TRAINING

- University of Michigan, Ann Arbor MI
Bachelor of Science, 1981, Mechanical Engineering
- Various continuing education courses and seminars

PROFESSIONAL REGISTRATION

- Licensed Professional Engineer in 20 states:
 - Arizona (AZ #46440)
 - California (CA #M33826)
 - District of Columbia (DC #PE908706)
 - Delaware (DE #20921)
 - Florida (FL #91718)
 - Illinois (IL #062073020)
 - Indiana (IN #PE11600604)
 - Maryland (MD #49553)
 - Michigan (MI #31675)
 - Minnesota (MN #53865)
 - Nebraska (NE #E-16264)
 - Nevada (NV #23828)
 - New Jersey (NJ #24GE05344200)
 - Ohio (OH #81444)
 - Pennsylvania (PA #PE085330)
 - Tennessee (TN #119503)
 - Texas, (TX #130444)
 - Washington (WA #26832)
 - Wisconsin (WI #45096)
 - West Virginia (WV #22062)
- National Council of Examiners for Engineering and Surveying
 - NCEES (Record #24830)

PROFESSIONAL CERTIFICATION

- CPD Certified in Plumbing Design (ASPE)
- LEED Accredited Professional

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APPOINTMENTS

- International Code Council (ICC) Mechanical Code Development Committee for 2021-2022.

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
- American Society of Plumbing Engineers (ASPE)
- International Code Council (ICC)
- US Green Building Council (USGBC)

EXPERIENCE

Over 35 years of experience in forensic consulting, engineering design, design-build, and construction administration for mechanical, plumbing, fire protection and energy management systems. Market sectors primarily include science and technology, education, healthcare, high-rise residential, and commercial.

Experience:

- Approximately 300 engineering engagements providing HVAC, fire protection and plumbing design, value engineering, and cost estimating for Owners and Architects.
- Approximately 12 design-build projects with various contractors.
- Approximately 100 forensic and expert consulting engagements including: design errors and omissions, construction defects, construction claims, property damage, and personal injury. The projects were commercial, higher education, hotel, single and multi-family residential as well as mobile and manufactured housing.
- Approximately 20 building HVAC, plumbing and fire protection system assessments for multi-family residential apartment and condominium buildings.
- Approximately 10 LEED® Certified building design projects.
- Approximately 20 engineering feasibility studies.
- Testified in 12 depositions and 2 trials.

2014 – Present

Ivey Engineering, Inc.

San Diego, California

Senior Consultant

Senior Consultant for Ivey Engineering, Inc., an engineering firm that provides expert witness, construction consulting and design services. Responsibilities include design and forensic analysis of HVAC, plumbing, fire protection, and energy management systems. Perform site inspections, testing, research, product analysis, and cost estimating. Issue reports and testify in depositions, hearings and trials.

2012 – 2014

Exp Global

San Diego, California

Senior Project Manager and Mechanical Engineer

Exp is a consulting engineering firm providing engineering design and construction administration in the areas of mechanical, electrical, and plumbing engineering. Market sectors primarily included science and technology, healthcare, and high-rise residential construction and renovation projects.

Responsibilities included:

- Engineering Design Team Leader for University of Michigan projects:
 - Clinical Pathology Laboratory Relocation and Renovation
 - Operating Room Equipment at University Hospital
 - Adult In-Patient Capacity Expansion at University Hospital
- Communication of design coordination issues between disciplines.
- Systems concepts and space requirements for engineering infrastructure.
- Sustainable Design, BIM, Design-Build, Design Team Interviews, Development of Project Scope and Fees
- Collaborated with architects and engineers from UM Facilities Planning and Development (FPD) as well as UM Architecture, Engineering and Construction (AEC) Facilities and Operations department, an environment of multiple clients with multiple project objectives and priorities.

2008 – 2012

MA Engineers

San Diego, California

Principal

MA Engineers is a consulting engineering firm providing engineering design and construction administration services in the areas of mechanical and plumbing engineering. Market sectors primarily included science and technology, healthcare, residential, commercial, and military construction and renovation projects.

Responsibilities included:

- Multiple projects at Miramar College and Mesa College, including a new library, two science buildings and expansion of the Central Energy Plant.
 - Central Plant Expansion featured a 65 foot tall chilled water thermal storage tank, which is prominently featured on campus as a testament to sustainable design.
- High-rise apartment building, 98K sf at UCSD.
 - LEED Gold, featuring VRF and natural ventilation systems
- Breast Care Center at Scripps Green Hospital in San Diego
 - Successfully navigated rigid space constraints and design requirements for both new and existing HVAC systems.
 - Achieved successful review and approval from OSHPD.
- Naval Facilities (NAVFAC) Design-Build Projects
 - RDT&E (Research, Development, Testing and Evaluation) Facility, Naval Air Weapons Station China Lake
 - Child Development Center, Marine Core Air Station Miramar
 - Youth Center, Naval Base San Diego
 - Barracks Building 787 Rehabilitation, North Island Naval Air Station

2006 – 2008

San Diego, California

1990 – 2006

Southfield, Michigan

Harley Ellis Devereaux

Associate and Senior Mechanical Engineer

Harley Ellis Devereaux is a full service A/E firm that provides Mechanical, Electrical, Plumbing and Structural engineering as well as Architectural services. Market sectors primarily included healthcare, science and research, and higher education.

Responsibilities included:

- Medical Examiner Facility in San Diego
 - VAV Fume Hood Exhaust, BSL-3, Tissue Digestion, Effluent Decontamination systems.
- Sciences Building at Baylor University in Waco TX
 - At 500K sf, this was the largest building on campus with over 150 laboratories, classrooms and conference rooms.
- Forensic Laboratories, including LAPD and LA County Sheriff, Phoenix, Scottsdale, and Mesa AZ Police Departments.
- VA Medical Center in Ann Arbor MI: Central Energy Plant, Research Lab, Clinical Addition and Renovation
 - Worked closely with VA Resident Engineers for 7 years.
 - One mid-level floor of existing hospital was devoted to MEP distribution in order to resolve vertical clearance challenges from limited floor to floor dimensions.

1984 – 1990

SWS Engineering

Royal Oak, Michigan

Senior Mechanical Engineer

Project engineer responsible for design of heating ventilating and air conditioning, plumbing and fire protection systems. Project experience included shopping malls, fire stations, office buildings, hospitals, convalescent centers and schools. Implemented and maintained CAD and engineering software.

1981 –1984

Smith Group

Detroit, Michigan

Mechanical Engineer, Energy Conservation and Research Division

Support engineer responsible for building heating and cooling load calculations, energy studies and technical assistance energy audits.