

Project Summary of Professional Experience

Twelve (12) years of civil engineering experience including 7 years as an Engineer in Training and 5 years as a Registered Professional Engineer (P.E.). In addition to general structural engineering, scope of experience includes geotechnical engineering, field engineering, laboratory materials testing and data manipulation. Primary focus of past 9 years has been the design of supporting structural elements of single- and multiple-story, residential, commercial, and other critical support structures including design utilizing combinations of materials such as timber, concrete, steel, and masonry. Substantial experience assisting clients obtain construction permits, site preparation, sampling, testing, data analysis, surveying, calculating, designing, manufacturing, inspecting, tool and equipment operation, and ensuring quality processes and safety. Ten (10) years of experience leading project teams and providing project oversight. Actively pursuing a Professional Structural Engineering License.

Tools of the Trade /Areas of Expertise

Surveying Tools	Hand Held Devices	Testing Equipment	Operational Equipment
Digital Water Levels, Laser Range Finder, Levels, Reading Rods, Transits, Total Stations, Plum Bobs, Pocket Tapes, Optical Levels, Compasses	Graphing Calculators, Oscilloscopes, Calipers, Micrometers, Scales, Voltmeters	Nuclear Density Gauge, Balloon Volume-Meter, Full-size Beam Tester, Tinius Olsen Testing Machines, Pressure Vessels	Forklifts, Compressed Air Tools, Circular Saws, Band Saws, Planers, Hydraulic Jacks
Software/ Related Hardware Tools		Professional Memberships	
AutoCAD 2013LT Enercalc Woodworks Shearwalls RISA 2D & 3D Retain-Pro	Mathcad Digitizers Visual Basic Programming Language Microsoft Office Suite	Member of the American Society of Civil Engineers (ASCE) since 1999	

Education

- ◆ B.S., Civil Engineering, Oregon State University, Corvallis, OR, September 2001

Employment

- ◆ 4/2012 to Present: WoodChuck Engineering, Eugene, OR
- ◆ 4/2004 to 4/2012: K & A Engineering, Inc., Eugene, OR
- ◆ 6/2001 to 4/2004: (As Engineer-in-Training) Wood Science & Technology Institute, LLC & Fiber Reinforced Plastics (FiRP®) Glualm Products, Corvallis, OR
- ◆ 6/2000 to 9/2000: Lane County Public Works, Field Engineering, Eugene, OR

Achievements

- ◆ Engineer of Record for locally recognized and published structures such as a custom single family residence on Deerhorn Road; a contemporary three-story apartment building named Hilyard Abbey; and a commercial pizzeria restaurant named La Perla.
- ◆ Engineer of Record for government projects, many custom multi-story single family residences, commercial structural retrofits, and tall retaining walls.

- ◆ Participant of Engineering in critical structures such as the Eugene Fire Station on Willamette St., Eugene, OR; and the State Hospital in Salem, OR.

Functional Expertise / Key Strengths

- ◆ **Project Team Leadership**—Has managed project teams of 8+ members, providing effective communication, on-site supervision, and subject matter expertise. Works as a member of the project team, encouraging collaboration. Develops project proposals based upon potential customer requirements. Demonstrates excellent coordination skills and attentiveness to detail in preparing and submitting required documents for pre-permit approval pertaining to structural and site preparation requirements.
- ◆ **Quality Control**—Ensures quality control of building projects, including: conducting quality control inspections during and after construction of residential and commercial structures; evaluating project team calculations and drawings for quality and accuracy; overseeing the placement of essential soil retention devices, the preparation of structural foundation pads, and the installation of imported fill materials. Implemented a Quality Control System for the manufacturing process of glued-laminated beams. For the Materials Lab at the Wood Science & Technology Institute, obtained samples and conducted quality control testing of Asphalt and Portland Cement Concrete.
- ◆ **Designing**—Designs structures comprised of timber, concrete, steel, and/or masonry materials. Over the past 7 years, responsible for designing all supporting elements for single- and multiple-story, single family residences, commercial, and other critical structures including: foundations, cantilevered and restrained retaining walls, floor framing systems, shear walls and lateral bracing systems, decks, structural headers and beams, and roof framing members. Designed and manufactured glued-laminated beams utilizing High-Strength Fiber Reinforced Plastics (FIRP®).
- ◆ **Drawings**—Creates comprehensive and detailed construction drawings of the structural framing systems, connections, and all essential construction elements required for proper fabrication of components and erection of structures. Creates as-built drawings of projects and framing members. Efficient use of AutoCAD templates, shortcuts, design center, tool palettes, and commands.
- ◆ **Inspections**—Inspects structural components during all construction phases to ensure quality assurance and compliance with drawings and specifications. Inspects structural framing and components of existing structures for evaluation in order to compile necessary remediation measures. Instinctively comprehends framing systems which aid in the inspection and evaluation processes of new and existing construction.
- ◆ **Testing and Sampling**—Experienced with laboratory testing and geotechnical engineering duties such as in-place density testing of native and/or fill material, geotechnical site investigations, and building site investigations. Conducted lab testing and data reduction for various types and dimensions of lumber and lumber-related products including cyclic-delamination, third-point, flexure, shear block, and tension testing.
- ◆ **Surveying**—Provides accurate level and topographic surveys for existing building conditions and existing ground surfaces. Completed surveying and staking assignments in the construction of new roads, set property pins, calculated volumes, mapped topography, and relocated monuments with a Survey Crew.
- ◆ **Calculations**—Develops comprehensive, detailed, and easy-to-follow calculation packages for complex structures. Assisted Construction Inspectors with calculation and control of material placed in construction sites.