

DAVID H DeVALVE, PE

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ENGINEER

- Detailed, innovative, progressive, results-focused professional with expertise in the survey, design, planning, inspecting, and construction of roads, railways, bridges, buildings, dams, slabs, and utilities over a varied 30 year career.
- In the consulting industry, worked in many areas of the civil engineering: hydrology studies, field layout for geotechnical reports, roadways, utilities, and buildings; surveying, designing, inspecting, and construction management of roads, railways, bridges, buildings, dams, and in-ground tanks for water-wastewater plants.
- Over 14 years of experience in a manufacturing facility designing and building out of steel industrial mills. A rolling mill to roll steel billets, square ingots of steel, into steel rods for use in many industries; a smelt mill to process scrap metal into billets. Designing building expansions, crane hosts, the rod reinforcing for concrete product applications across the US.
- Preparing EPA and FEMA reports for water, wastewater, and chemical process management.

Areas of expertise:

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|-------------------------------|------------------------------------|
| – Construction management | – Structural design and analysis |
| – Site and project planning | – Troubleshooting/problem solving |
| – Technical sales, consulting | – Cross-functional team leadership |

Technical skills: Proficient in AutoDesk products (AutoCAD LT and 3D Land Desktop), Windows Office Suite, structural & BIM programs working on those operating platforms.

EXPERIENCE

CRITERIUM-MCWILLIAM ENGINEERS, LAS VEGAS, NV (9/2019-5/2021)
Inspect residential/commercial structures for resale or renovation.

LHOIST NORTH AMERICA, Henderson, NV (5/2017 – 6/2019)
Sales Manager – Civil & Roads

Managed technical sales of lime for the west coast US sales team in civil, soil, and road projects.

- Focused on improving asphalt paving and stabilizing clay soils for more durable solutions.

OKLAHOMA STEEL & WIRE CO., INC., Madill, OK (3/2003 – 4/2017)
Technical Sales/Plant Engineer

Daily designed layout and oversaw production of reinforcement for concrete projects in buildings, bridge elements, pavements, and slabs throughout North America (mostly in the U.S.), supplying many state and federal projects.

- Managed design, inspection, and building for commercial and industrial buildings on family-owned properties expanding operations for producing steel reinforcing products from scrap.
- Prepared reports for the containment and replacement of HCL tanks at Oklahoma Steel & Wire and Iowa Steel & Wire, 2014.
- Aided with design expansion for two warehouses on company property, 2004 and 2013.
- Prepared EPA SPCC Oil Handling plan documents for four company plants: Oklahoma Steel & Wire, Mid America Steel & Wire, Iowa Steel & Wire, and Southwestern Wire, 2010.

- Facilitated design and managed construction of a steel melting plant with dimensions of 90 feet by 750 feet for Mid America Steel & Wire, 2008 – 2010.
- Managed construction of a steel rod rolling mill with dimensions of 90 feet by 1075 feet for Mid America Steel & Wire, a company of Oklahoma Steel and Wire, 2003 – 2004.
- Designed bridge crane rails and lifting boom at Oklahoma Steel & Wire as needed.
- Worked with clients to assess and service their product needs for CIP and precast construction.
- Helped design steel wire panels for agricultural fencing products.

PORT AUTHORITY OF HOUSTON, Houston, TX

(Summer 2008)

Civil/Structural Engineer

- Inspected port container vessel facilities, made recommendations for repair or upkeep maintenance for various wharfs or warehouses around the port.
- Reviewed construction documents for new port cruise ship facilities and new security access entryways, making suggestions to improve constructability of the projects.

FUSS & O'NEILL, INC., Manchester, CT

(11/2000 – 10/2002)

Civil Engineer III

- Designed in-ground concrete tanks for the upgrade of the Water Pollution Control Facility (wastewater treatment) in Groton, Connecticut.
- Performed structural evaluations of various buildings, from houses to warehouses, for rehabilitation, refurbishment and repurposed use.
- Modernized and upgraded the design of municipal dams in Massachusetts and Rhode Island.
- Designed and performed analysis of retaining walls and sheeting for bridge construction or better land use of commercial development.

Additional Consulting Experiences-with 5 CT Companies over 15 year span.

- Provided building/bridge construction inspector services for UCONN-Avery Pt. Campus MS & O building projects, the vehicle/pedestrian bridge for Six Flags NE, Agawam, MA, and 3 municipal bridges in Enfield, CT, providing overview for important construction elements.
- Steam railway bridge design and cost estimating work for the extension of a tourist railway.
- Design, plan, and/or inspect many types of state highway bridges in throughout the northeast and needed roadway improvements-abutments and retaining walls to support grade separation. Bridges varied from steel tub girders, to steel I-girders and cover plated rolled beams, to concrete box or T-girders, to a historic steel truss thru-arch span. Prepared construction documents and cost estimates for several state highway widening and safety improvement or bridge reconstruction projects thru busy commercial areas to rural country sites.
- Inspected, report writing to recommend repairs/improvements to various bridges for the city of Norwalk, CT over 3 year span.
- Peer reviewed the parking lot extension and structural retrofit for the proposed UCONN ice rink enclosure.
- Prepared plans for major sewer/storm water separation system on a state route in New Haven, CT.
- Modeled major, minor CT rivers for FEMA Flood Studies and Maps with HEC2 modeling program.
- Survey party chief on residential subdivisions, commercial office complexes, large strip-malls, a 400' square warehouse, roadway and drainage layouts, building foundations, and

preparing as-built plans of finished construction. Surveyed various land, road (local to interstate highways), and river and railway profiles for planning development use and safety improvements.

PROFESSIONAL DEVELOPMENT

B.S., Structural and Soil Mechanics Engineering, UNIVERSITY OF CONNECTICUT, Storrs, CT

Memberships and roles:

- ACI (American Concrete Institute), ASCE (American Society of Civil Engineers), ASTM (Association of Standards for Testing and Materials), NPCA (National Precast Concrete Association), PCA (Portland Cement Association), PCI (Prestressed Precast Concrete Institute), CRSI (Concrete Reinforcing Steel Institute), and WRI (Wire Reinforcement Institute).
- Voting member on numerous code writing committees
- Gave presentations at conventions
- Chaired a subcommittee while secretary on main committee (ACI439, -A)

Professional Registrations:

PE-CE NV (#27587), PE OK (#21042), PE IA (#22314), PE TX (#97192), NCEES License Records Program (#16-999-74).