

Abram VanElswyk, PE, MBA

713.819.9942 ▪ Abram@AbramV.com ▪ Houston TX 77004

EDUCATION

Bachelor in Civil Engineering (BSCE) ▪ Portland State University, 2005

Vice President, Institute of Transportation Engineers PSU Student Chapter

Master in Business Administration (MBA) ▪ University of Houston Bauer College of Business, 2010

Member, Bauer MBA Society Real Estate Club

LICENSING AND CERTIFICATIONS

Professional Engineer, Texas

Professional Engineer, Pennsylvania

TxDOT Precertifications: 1.3.1, 1.4.1, 3.1.1, 3.2.1, 4.1.1, 4.2.1, 7.1.1, 8.1.1

EXPERIENCE

I.S. Engineers, LLC – Senior Engineer – 10/2014 to 01/2018

- Lead Engineer for SH 150 Super 2 construction in Lufkin District. Responsible for production of all plans, specifications, and estimates for this 7.5 mile, \$14mm project, including supervision of production staff and coordination with other PEs. Other responsibilities have included field visits, progress reports, supplemental project documentation, and DSR, 30%, 60%, 90%, and 95% submittals.
- Schematic Development Task Lead for IH 30 reconstruction between IH 20 and IH 820 in Fort Worth District. Proposed alternatives include ramp reversals, relocated direct connectors, and innovative intersections including a modified diverging diamond and a roundabout-based diverging diamond.
- Lead Engineer for FM 2268 Salado Main Street reimagining in Waco District. Responsible for concept development and refinement, agency coordination and public involvement, and PS&E package development. The 1.1 mile project involves the provision of sidewalks, bicycle lanes, decorative lighting, storm drainage improvements, a bridge class culvert replacement, and innovative parking design within irregular right-of-way.
- Civil Task Lead for Hardy Toll Road EZTag conversion. Responsible for mainlane and ramp pavement reconstruction, removal, signing and pavement markings, and complex multi-sequence traffic control at mainlane toll plaza locations. Supervised EITs in the preparation of PS&E for this fast-track project.
- Signing and Pavement Marking Task Lead for SH 121 managed lane construction (sub to LAN) in Fort Worth District. Responsible for large sign design, COSS & OSB details, and S&PM layouts.
- Signing and Pavement Marking Task Lead for SH 199 freeway construction (sub to SEA), Fort Worth District. Responsible for S&PM design, layouts, specifications, and cost estimate.
- Responsible for hydraulic and hydrologic analysis and design for US 183 Super 2 conversion, Cisco to Rising Star, in Brownwood District. Project included the development of stormwater models using both the Rational Method and Omega EM regression, and analysis of culverts and storm sewer using WinStorm and HY-8.
- Responsible for hydraulic and hydrologic analysis and design for SH 21 access management project, Bryan District. Project included new and relocated storm sewers, inlets, and the determination of runoff areas.
- Designed street lighting system for SL 360 at Loop 1 improvements, Austin District. Analyzed as-built plans to determine whether new lighting could be retrofitted into existing circuits. Coordinated with traffic signal designers. Produced plans and construction cost estimate.

Traffic Engineers, Inc. – Associate – 02/2013 to 09/2014

- Schematic Designer for City of Houston Pre-Engineering for Major Street and Traffic Improvements for three corridors: Crosstimbers Street, Victory Drive, and Little York Road. Proposed innovative designs including a grade separation with quadrant-type intersection, buffered parallel parking, and side transit boarding islands.
- Designed two multi-use trails for the Houston Parks Board's Bayou Greenways program. Responsibilities included horizontal and vertical alignment, drainage design to COH IDM, production of plans, specifications, and estimates, permitting, signatures, and prebid/preconstruction meetings and correspondence.
- Designed a roundabout in Sugar Land, TX. Responsibilities included geometric design, grading, drainage, in-circle and advance signage design using SignCAD, and PS&E production. Two designs were created; low-cost design based on substantial re-use of existing pavement, high-cost design involving total reconstruction.
- Schematic Designer for reconstruction of FM 1092 in Stafford. Proposed improvements included intersection realignments, landscaped median with channelized turn lanes, and driveway consolidation. Companion urban design study by Asakura Robinson used new intersections as the basis for "urban village" redevelopment.
- Designed a traffic control plan and temporary pavement for Walker Street in Downtown Houston to enable construction of the Marriot Marquis hotel.
- Designed overhead signs and supports for Sam Houston Tollway Ship Channel Bridge EZTag conversion using TxDOT COSS/OSB design methodology.
- Designed three traffic signals on Holman Street in Houston's Midtown as part of a redevelopment project.
- Designed several sidewalks for the Greater East End Management district, including drainage reconstruction.
- Shepherded several full plan sets through the City of Houston Review & Permitting Process.

PennDOT Highway Delivery Division – Senior Civil Engineer Transportation – 10/2012 to 01/2013

- Reviewed roundabouts, bridges, and corridor plans for good design and compliance with criteria.
- Ran the Department's monthly consultant selection meetings, including rankings and QA of SOQs.
- Reviewed consultant overhead rate submissions for compliance with PennDOT, FAR, and AASHTO.

PennDOT Highway Delivery Division – Civil Engineer Transportation – 12/2010 to 10/2012

- Reviewed roundabouts, bridges, and corridor plans for good design and compliance with criteria.
- Responsible for Design CPM Schedule accuracy and QA for four districts covering 1/3rd of the state.
- Rewrote the Department's training manual for project scheduling (Publication 615).

Rooftop Design Group, LLC – Principal, Designer – 11/2007 to 05/2010

- Formed a sole proprietorship LLC to market site design and lot layout concepts to developers.

Kimley-Horn and Associates – Analyst/EIT – 08/2006 to 09/2007

- Created an alternate schematic design for Houston's IH-610/US-290 interchange as part of SOQ process.
- Designed stormwater collection and detention for SH-71/US-183 interchange using GEOPAK drainage.
- Inspected and revised plans and cost estimates for compliance with all applicable standards.
- Crafted a street lighting plan for several existing arterials in Wichita Falls, TX.

Sound Engineering, Inc. – Design Engineer – 08/2005 to 07/2006

- Designed and submitted a 16-lot subdivision for preliminary plat approval.
- Crafted three separate designs for a 70-80 lot mixed use development with complex zoning.
- Planned for future extension of a Pacific Northwest aboriginal gaming facility.
- Designed and detailed utility plans for a 150+ unit apartment complex.
- Inspected ongoing projects in the field for compliance with site development plans and standards.

Portland State University ITS Lab – Undergraduate Research Assistant – 09/2004 to 06/2005

- Collected, collated and analyzed data on rural transit agency funding mechanisms and expenditures.
- Performed field analysis of traffic volume and density on rural Oregon "vacation highways."
- Assisted in signalized intersection modeling for a Transit Signal Priority (TSP) demonstration project.

SKILLS AND CERTIFICATIONS

- Registered Professional Engineer in Texas and Pennsylvania
- Extensive experience with Microstation, GEOPAK, and plugins (SignCAD, Autoturn, etc)
- Experience with other CAD programs including AutoCAD and Sketchup
- Knowledge of major storm computation software including WinStorm/HouStorm and HY-8
- Familiarity with most major scheduling programs: Project, Primavera, Deltek
- Fluency in all Microsoft Office products; Word, Powerpoint, Excel
- NHI Certified Value Engineer
- Extensive experience with technical writing and graphic design for reports, presentations, and SOQs

OTHER ACTIVITIES

- Presented at TRB 2013 Annual Meeting in Washington, D.C.
- Website manager for trbroundabouts.com, home of TRB ANB75, Roundabouts Subcommittee
- Active in peer review process for TRB ANB75, Roundabouts Subcommittee
- Attended TRB Annual Meetings, Washington D.C., 2004-2006, 2012, 2015, 2017
- Attended TTI Transportation Short Course, 2016
- Attended Transportation Research Board's National Roundabout Conference, Kansas City, 2008
- Gave a presentation on suburban development design at Houston's second "Pecha Kucha" night.