

Curriculum Vitae

Kenneth R. Dees, P.E., CFM

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Senior Engineer

36 years of experience in civil engineering

Senior Engineer with business and management experience, coupled with expertise in all aspects of land development. Skilled in providing strategic direction and project management pertaining to complex civil engineering projects. Analytical professional with talent in identifying and mitigating risks and implementing strategies and solutions. Collaborative communicator with speaker and management skills, focused on promoting synergy among project stakeholders. Expertise in design of paving, grading, water and sewer with a special emphasis on storm water drainage, floodplain hydrology and hydraulics. Seasoned expert using AutoCAD Civil 3D, HEC-HMS, HEC-RAS, Flo-2D, HW-8, GeoHECRAS and other design tools.

Highlights of Expertise

- Hands-On Design Engineer
- Excellent speaking and writing skills
- Conflict Resolution and Liaison with stakeholders
- Preparation of proposals, schedules and budgets
- Tracking of project timeframes and expenditures
- Analysis and resolution of complex technical issues
- Expert Witness and Litigation Support
- Numerous successful projects

Education

BSCE, Southern Methodist University

Certifications

Professional Engineer (PE) – Number 128736
Certified Floodplain Manager (CFM) – Number 3212-16N

Professional Experience

CIVIL SITE ENGINEERING

Mr. Dees is a hands-on expert in most all aspects of civil site engineering including project management, liaison with clients and communities as well as many years of hands-on experience with production of construction drawings including three-dimensional grading and drainage, water and wastewater systems, roadways, detention ponds, dams, levees, lift stations and much more.

FLOODPLAIN MANAGEMENT

Mr. Dees is a hands-on expert in all aspects of surface hydrology as well as open and closed hydraulics as related to flood studies, floodplain management and storm water.

REGULATORY COMPLIANCE

Mr. Dees is highly involved in regulatory support and provides permitting liaison with local community, state and federal government agencies.

EXPERT TESTIMONY AND LITIGATION SUPPORT

Mr. Dees has experience in forensic engineering as applied to water resources including floodplain and general drainage issues. He is uniquely qualified to assist with any legal matter which is based upon the impact of existing or potential flooding due to construction of stormwater improvements, including diversion of storm waters, increase of flow or frequency, failure or risk of failure of levees, dams, detention ponds as well as most any existing or potential adverse impact which presents a hazard to the health and well-being of the general public.

Past and Present Positions

Staff Engineer | Espey, Huston and Associates | 01/1985 - 01/1987

- Responsibilities – project management; prepare hydrologic and hydraulic analyses; liaison with stakeholders
- Key Projects
 - Mountain Creek – a 4500 acre single-family development – responsible for analysis and construction documents related to streams, detention ponds, stream drop structures and street drainage
 - Dallas County Flood Control District No 1 – a 1500 acre project - responsible for hydraulic modeling of channel improvements, levee and pump station; liaison with stakeholders, assisted with preparation of bond package
 - Numerous other projects

Founder/Owner | Datagraphics / Geodesk | 1987 – 1998

- Responsibilities – Oversaw creation of a company which grew to 20 personnel within two years and which over the next 10 years created two legacy software products which resulted in hundreds of installations. Responsible for preparation of strategic business plan for a multi-faceted high-tech company which provided custom computer hardware, systems integration, development of core software products and tools, SAS (software as a service) and data development services for map-based systems. Responsible for strategic business plan, management, business development, project management and primary author of software.
- Key Projects
 - Super Conducting Super Collider – hired by the State of Texas to provide software development and data development services pursuant to acquisition of real estate and preparation of surface and three-dimensional sub-terrain easements for this six-billion dollar project.
 - Mapworks Mapping Software – Development of Mapworks, the first AutoCAD-based Mapping system which was subsequently sold, along with data development services, to over twenty municipal, county and state government agencies.
 - CivilWorks Civil/Survey Software – Development of CivilWorks, one of the first AutoCAD-based Civil Engineering/Land Surveying software suites which was subsequently used by hundreds of public and private entities including local, county and state agencies as well as utility companies, energy companies, railway companies and consulting engineering companies.

General Manager | Realtime Communications | 1998 – 2000

- Responsibilities – Troubleshooting, refinement and positioning of an existing company which was “ground zero” for the dot-com world in Austin, Texas. Reported to the founders and responsible for creation of new business plan, all assets, product development and revisions of staff resources. Redirected the focus of the company based upon forward-thinking as well as emergent trends in offering internet-based services to existing and new customers; collection of a large amount of past debt; refocused products and services lines; regrouping of staff positions; eliminate outsourcing of technical support - creation of new technical support system and recruited/trained new technical support personnel.
- Key Projects
 - Redefined the overall direction of company in consideration of geographic and vertical product and services opportunities which would provide a strategic edge over much larger competitors; eliminate old products and services; identified new products and services
 - Creation of new hierarchy-based Technical Support System; recruited, hired and trained new technical personnel in use of system
 - Implemented New Focus on eCommerce – provided customers with eCommerce websites using high-end, state-of-the-art solutions

Founder/Owner | Dees Technology & Engineering | 2000 – 2004

- Responsibilities – Oversaw transition of the original Datagraphics/Geodesk company into a consulting engineering company
- Key Projects
 - Outsourcing – Provided outsourced technical services to a number of other small engineering companies.
 - Projects – provided civil engineering services for numerous retail, commercial, single-family and multi-family projects as well as floodplain engineering projects

Group Manager - Water Resources Group | Carter & Burgess | 2005

- Responsibilities – Hired by Dallas office management with the intent of reorganizing the Water Resources group as well as management of a dozen project engineers.
- Key Projects
 - City of Dallas – Trinity River Basin – Oversaw analysis of a hypothetical dam breach which would result in flooding of a portion the central business district of Dallas. Estimated the extent of flooding for any given storm event and the resulting delineation of the areas impacted by the flood.
 - Oversight and assistance pertaining to numerous other projects

Founder/Owner | Dees Technology & Engineering | 2006 – 2010

- Responsibilities – Continuance of company started in 2000.
- Key Projects
 - Outsourcing – Provided outsourced technical services to a number of other small engineering companies.
 - Projects – provided civil engineering services for numerous retail, commercial, single-family and multi-family projects as well as floodplain engineering projects

Senior Engineer | PBS&J | 2011

- Responsibilities – business development; project management; prepare hydrologic and hydraulic analyses as well as other engineering studies; liaison with all stakeholders
- Key Projects
 - Enterprise Pipeline – 36” High Pressure Gas Line – Worked directly under the supervision of the Executive Vice President of Enterprise Pipeline as well as the Project Manager of a new 36” High Pressure Natural Gas Line which traversed the City of Fort Worth. Served as a representative of Enterprise during negotiations, conflict resolution and permitting with City of Fort Worth. Met with citizens regarding their concerns pertaining to the location and dangers involved in construction and operation of the proposed pipeline.
 - Encana Corporation – assisted with permitting for natural gas pipelines in Ellis County, Texas.
 - Assisted with numerous other projects

Founder/Owner | Chalk Mountain LLC / Agillia LLC | 2012 – present

- Responsibilities – business development; project management; preparation of construction documents, hydrologic and hydraulic analyses; regulatory compliance and permitting; liaison with stakeholders
- Key Projects
 - Numerous Flood Studies – flood studies for municipalities, land developers and outsourced engineering services to other consulting engineering companies
 - Numerous Other Engineering Projects – including single-family residential, multi-family residential, retail, commercial and office buildings, storage facilities, airport hangars and much more.

Example Projects

Retail/Commercial/Industrial

- Crest Office Building – Plano, TX
- Willow Bend Wellness – Plano, TX
- Addison Airport Hangar, Addison, TX
- Crest Manor Self-Storage, Lewisville, TX
- Bush Pioneer Centre, Grand Prairie, TX
- Harbor Point Development, Garland, TX
- IRIS USA Manufacturing Facility, Mesquite TX

Residential Development

- FIJI Lofts, Dallas, TX
- Hall Street Condominiums, Dallas, TX
- Reserve at Mayfield, Arlington TX
- St Joseph Retirement Village, Coppell, TX
- Lansborough Apartments, Houston, TX
- Keller Springs Estates, Dallas, TX
- Brookhollow Estates, Aledo, TX

Water Resources - Flood Studies

- Bear Creek, Parker County, Texas
- Brazos River Flood Study, Somervell County, TX
- Big Fossil – Blue Mound at Bailey-Boswell Flood Study, Saginaw TX
- Bosque River Flood Study, Stephenville, Texas
- Clear Fork Trinity River, Tarrant and Parker County, Texas
- Doe Branch, Celina, Texas
- Fish Creek - Reserve at Mayfield Flood Study, Arlington TX
- Grassy Creek, Venus, Texas
- Honey Creek Flood Study, Celina, Texas
- Lake Creek Flood Study, San Angelo, TX
- Little Fossil Creek Flood Study, Saginaw, Texas
- Long Branch Creek, Greenville, Texas
- Mary's Creek, Parker County, TX
- Spring Creek, Plano, Texas
- White Rock Creek - Keller Springs Flood Study, Dallas, TX