

Objective **Provide engineering and technical services.**

**Expertise
Summary**

Expertise includes:

- Strategic Business Planning
 - Product Development and Launch
 - Technology Development
 - Business Operating Systems Implementation
 - Intellectual Property Development
 - Product Management
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**Education &
Accreditation**

- Four Patents Issued, Several Pendings 2003 - 2007
 - Vanderbilt College of Business, Executive Management Training Graduate 2000 - 2001
 - Ohio State University, Fisher College of Business 1999
 - Registered Professional Engineer, State of Texas 1988
 - B.S. Mechanical Engineering, Texas A & M University, College Station, TX 1980 - 1984
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Experience **Advanced Pipe Services, LLC – August 2006 to Present**

Owner, Plastic Pipe Consultant

• **Projects Include:**

- Development of an AASHTO material standard for a HDPE culvert relining pipe
 - Development of a patentable hydraulic inlet structure
 - Development of a design method for HDPE culvert relining pipe
 - Development of HDPE material blending algorithm
 - Development of sales training modulus for solid wall HDPE pipe company
 - Failure analysis and remediation plan for a profile wall HDPE construction project
 - Design and development of injection molded HDPE fittings
 - Design of 4 corrugated HDPE pipe wall profile
 - Development of a provisional patent application for a HDPE pipe and fittings profile wall
 - Development of a corrugated HDPE specification for trade association
 - Corrugated HDPE LRFD Structural Design calculations for SC DOT
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**Experience
(continued)**

HANCOR, INC. – 1992 to August 2006

Director of Field and Application Engineering • (2000 to August 2006)

• **Responsible for:**

- Intellectual property development;
- Developed and implemented business plans;
- Material Technologies;
- Implementation of a failure mode effects analysis process and a business operating system;
- Research and develop programs; and
- Federal, State, Local government product specification approvals.

• **Maintained responsibilities from National Application Engineering Manager Position.**

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National Application Engineering Manager • (1996 to 2000)

- **Responsible for:**
 - Corporate objectives in ASTM, AASHTO and other nationally recognized specifying entities;
 - Managed the Application Engineering Department, which included development of design and installation procedures;
 - Technical training guidelines for sales force; and
 - New product introduction into new and existing markets.
 - **Chaired the Plastic Pipe Institute, Corrugated Polyethylene Pipe Association's Research Committee and developed:**
 - Industry design method;
 - Industry quality control program; and
 - Handbook for industry products.

Area Sales Engineer • (1992 to 1996)

- **Responsible for:**
 - Obtaining market acceptance of corrugated polyethylene pipe in an eight state area;
 - Sales Force Technical Training; and
 - Technical presentation regarding design, durability and installation of pipe.

***Experience
(continued)***

Texas Water Commission – 1985 to 1992

Unit Supervisor

- Responsible for evaluating engineering and financial feasibility of commercial and residential land development projects funded by the issuance of governmental bonds.
- Promoted to unit supervisor and managed a team of four engineers.

***Experience
(continued)***

Texas A&M University, Mathematics Department – 1981 to 1984

Teaching Assistant

- Responsible for teaching calculus and differential equations problem solving techniques to engineering students.

***Professional
Affiliations***

- Past Chairman - Corrugated Polyethylene Pipe Association Research Committee (7 for years)
- Panel Member - Transportation Research Board Research Recycled Material Research Project 04-32
- Member - ASTM F17
- Member - Transportation Research Board AFS60, Committee on Subsurface Drainage and AFS 40 Committee on Subsurface Soil-Structure Interaction
- Member - AASHTO Flexible Culvert Liaison Committee