

**EDWARD DE SANTIS, Eng. CE, P.E.**  
**CONSULTING GEOTECHNICAL ENGINEER**

**EDUCATION:**

Polytechnic Institute of New York, Engineer's Degree (Eng. CE),  
Geotechnical Engineering, 1978

University of Missouri, MSCE,  
Soils and Foundation Engineering, 1966

Polytechnic Institute of Brooklyn, BS,  
Aeronautical Engineering, 1960

**CONTINUING EDUCATION:**

Pile Group Prediction Symposium,  
Washington, DC, 1980

Recent Advances in Geotechnical Engineering,  
Harrisburg, PA 1983

Special Geotechnical Engineering for Roads and Bridges,  
Harrisburg, PA, 1984

Groundwater Pollution and Hydrology,  
Princeton, NJ 1985

Designing With Geosynthetics  
Washington, DC, 1986

Analytical Laboratory Services,  
Brandywine, PA, 1988

Field Testing in Engineering Geology, Sunderland Polytechnic,  
England, UK, 1988

Environmental Site Assessments,  
Baltimore, MD, 1990

Portland Cement Concrete Technology Seminar  
Annapolis Junction, Maryland, 1995

Karst Feature Identification and Remediation  
R.E. Wright, Middletown, Pennsylvania, 1996

Geotechnology in Infrastructure Improvement  
ASCE/PENNDOT, Hershey, Pennsylvania, 1996

**BACKGROUND:**

**Edward De Santis, P.E.**

Columbia, Maryland

2004 - present: Consulting Geotechnical Engineer

**Engineering Consulting Services Limited**

Hanover, Maryland

2001 - 2003: Principal Engineer

**Professional Service Industries, Inc.**

Linthicum, Maryland

1996 - 2001: Senior Project Engineer

**Edward De Santis, P.E.**

Columbia, Maryland

1991 - 1996: Consulting Geotechnical Engineer

**ATEC Associates, Inc.**

Columbia, Maryland

1990 - 1991: Northeast Regional Manager

1989 - 1990: Northern Area Manager, Northeast Region

1987 - 1989: Geotechnical and Environmental Services Group  
Manager and Chief Engineer

1986 - 1987: Chief Engineer and Engineering Division Manager

1980 - 1985: Senior Project Engineer

**U.S. Army Corps of Engineers**

Continental United States and Overseas

1978 - 1980: Training Director, U.S. Army Engineer School  
Ft. Belvoir, Virginia

1974 - 1978: Professor of Military Science and Civil Engineering,  
Polytechnic Institute of New York

Brooklyn, New York

1972 - 1974: Research and Development Project Manager  
Ft. Belvoir, Virginia

1970 - 1972: Construction Engineer

Saigon, South Vietnam and Ft. Hamilton, New York

1966 - 1970: Engineering Consultant, Government of Guatemala  
Guatemala City, Guatemala

1960 - 1964: Construction Project Manager  
Ft. Lewis, WN, Karlsruhe, Germany, and  
Panom Sarakham, Thailand

**PROJECT EXPERIENCE:**

Geotechnical engineering studies and evaluations for the following types of projects:

**INDUSTRIAL PLANTS:** Generating stations, transmission lines, manufacturing facilities, printing plants, food processing plants, chemical plants

**HIGH RISE STRUCTURES:** Radio, radar, and water towers, office and hotel buildings

**MUNICIPAL:** Water and sewage treatment plants, chiller plants, schools, ground water resources, utility lines

**COMMERCIAL:** Office complexes and warehouses

**TRANSPORTATION:** Highways, bridges, subgrade drainage

**WATER-RELATED STRUCTURES:** Dry locks, levees, dams, bulkheads, storm water management facilities

**PAVEMENTS:** Highways, streets, parking areas, truck depots. pavement failure evaluations

**GROUND WATER:** Dewatering, drainage systems, hydrogeology of karst regions, groundwater contamination

**FAILURE INVESTIGATIONS:** Foundation and floor slab settlements, sinkhole induced foundation failures, retaining wall failures

**SPECIAL PROBLEMS:** Cut and fill slope failure evaluation and correction, soil compaction and chemical stabilization, photo-geology and fracture trace studies, Geotechnical Engineering in karst regions, sinkhole identification and repair, expert witness testimony

**TEACHING:** Soil Mechanics, Soils Laboratory, Soils Engineering, and Special Topics in Slope Stability at the undergraduate level, and Technical Seminars for Architects, Engineers and Contractors

**SPECIAL CAPABILITIES/RESEARCH:**

Field compaction of soils, fracture trace (photo-geology studies), sinkhole identification and repair, engineering properties of marine clays (slope stability and shrink-swell potential), expert witness testimony

**REGISTRATIONS:**

Professional Engineer: Delaware (6207)  
Maryland (12290)  
Pennsylvania (PE-030292-E)  
Virginia (12192)  
New Jersey (GE027572)

**AFFILIATIONS:**

Maryland Society of Professional Engineers  
American Society of Civil Engineers  
Society of American Military Engineers  
International Society of Soil Mechanics and Foundation Engineers  
Fairfax County, Virginia Geotechnical Review Board  
Institution of Royal Engineers (Great Britain)