



# Dr. Edward J. Garbin, Jr., Ph.D., P.E., D.GE

President, Principal Engineer

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## ACADEMIC BACKGROUND

- Ph.D., Civil Engineering (Geotechnical), University of South Florida, 2003  
*Dissertation Topic: Drilled Shaft Foundation Defects*
- M.S., Civil Engineering (Geotechnical), University of South Florida, 1999  
*Thesis Topic: Static Load Testing of Shallow Foundations on Aggregate Piers*
- B.S., Civil Engineering (Structural), University of South Florida, 1998  
*Capstone Project: Structural Redesign of the Howard Frankland Bridge Superstructure*
- A.S., Engineering Science, Camden County College, 1995

## QUALIFICATIONS

- Diplomate, Geotechnical Engineering (D.GE), ASCE Academy of Geo-Professionals  
*Board-Certified Expert in Geotechnical Engineering*
- 20 Years of Post-Licensure Structural and Geotechnical Engineering Design and Construction Experience
- Qualified as an Expert & Defeated a Daubert Motion in 2021, United States District Court, E.D. Pennsylvania

## AREAS OF EXPERTISE

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|----------------------------|---------------------------------------|--------------------------------------|
| ● Geotechnical Engineering | ● Foundation Load & Integrity Testing | ● Earth Retention Systems            |
| ● Soil Mechanics           | ● Design & Quality Control            | ● Concrete & Earthwork               |
| ● Ground Improvement       | ● Geostructural Engineering           | ● Instrumentation & Data Acquisition |
| ● Building & Construction  | ● Shallow & Deep Foundations          | ● Forensic Engineering               |

## PROFESSIONAL WORK HISTORY

- President, Principal Engineer, Garbin GeoStructural Group, LLC, 2017-Present  
*Design Geostructural Systems (Piles, Ground Improvement, Earth Retention)*  
*Peer Review & Expert Witness for Geotechnical & Geostructural Projects*
- Vice President of Engineering, Earth Tech, LLC, 2015-2017  
*Design Ground Improvement & Deep Foundation Systems*
- Chief Engineer, Southern Region, Hayward Baker, Inc. (Keller), 2007-2014  
*Design Earth Retention, Ground Improvement, & Deep Foundation Systems*
- Adjunct Professor, Civil Engineering, University of South Florida, 2004-2011
- Geotechnical Engineering Manager, Universal Engineering Sciences, Inc., 2003-2007
- Project Engineer/Instrumentation Lab Manager, Applied Foundation Testing, Inc., 1997-2003
- Engineering Technician, McClymont & Rak Engineers, 1994-1995 (Summers/Breaks)
- Construction Crew Chief, Asyla Construction, 1984-1994 (Summers/Breaks Through June 1988)



## PROFESSIONAL HONORS

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- ASCE Ridge Branch Project of the Year (Designer), Hayward Baker, 2012
- FDOT General Aviation Airport Project of the Year (Designer), Hayward Baker, 2012



## PROFESSIONAL SOCIETIES

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- American Society of Civil Engineers (ASCE)
- Academy of Geo-Professionals (AGP)
- Deep Foundations Institute (DFI)
- Florida Engineering Society (FES)
- Geo-Institute of ASCE (GI)
- The International Association of Foundation Drilling (ADSC)



## SELECT PUBLICATIONS

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- Cook, C.R., Plaskett, M.E., and Garbin, E.J., (2015), "Ground Improvements for a Sloped Runway Expansion." Proceedings, IFCEE 2015, San Antonio, Texas. March 17-21.
- Garbin, E.J., Hill, J.R., and Hussin, J.D., (2014), "Rigid Inclusions for Embankment Support over Waste Phosphatic Clay." Proceedings, Geosynthetics Mining Solutions, Infomine, Vancouver, Canada. ISBN: 978-0-9917905-5-5.
- Hussin, J.D., Garbin, E.J., (2012), "Recent Advancements in the Use of Dry Mass Stabilization for Structural Support in the United States." Proceedings, 4th International Conference on Grouting and Deep Mixing, Deep Foundations Institute, New Orleans, Louisiana.
- Garbin, Edward J., McIntosh, Kirk A., and Desai, Karishma R., (2011), "Mass Stabilization for Settlement Control of Shallow Foundations on Soft Organic Clay Soils." Proceedings, Geo-Frontiers 2011 Conference, Geo-Institute of ASCE, Dallas, Texas.
- Garbin, Edward J., (2010), "Tank Site Remediation." Tank Storage Magazine, September Issue, Horseshoe Media Ltd., London, UK.
- Garbin, Ed, Mann, Joseph A., (2010), "Mass Stabilization for Environmentally Sensitive Projects in Florida." Proceedings, TRB 7th International Bridge Engineering Conference, San Antonio, Texas.
- Garbin, Ed, Hussin, James, and Kami, Chikashi, (2010), "Earth Retention Using the TRD Method." Proceedings, Earth Retention 2010, Geo-Institute of ASCE, Bellevue, Washington.
- Garbin, Edward J., Evans, Jeffrey C., and Hussin, James D., (2009), "Trench Cutting Remixing Deep (TRD) Method for Vertically Mixed-In-Place Cutoff Wall Construction at Herbert Hoover Dike." Proceedings, Dam Safety 2009, Association of State Dam Officials, Hollywood, FL.
- Evans, Jeffrey C., and Garbin, Edward J., (2009), "The TRD Method for In Situ Mixed Vertical Barriers." Proceedings, US-China Workshop on Ground Improvement Technologies IFCWEEF09, Orlando, FL.
- Garbin, E., Hioki, Y., Kami, C., and Lewis, C., (2009), "Evaluation of Trench Remixing Deep (TRD) Cutoff Wall Homogeneity Using Thermal Integrity Testing." Proceedings, International Symposium on Deep Mixing & Admixture Stabilization, Okinawa, Japan.
- Garbin, Ed J., Jr., Mullins, A. G. (2004), "The Statnamic Analysis Workbook: A Tool for Automated Statnamic Data Analysis and Storage." Journal of Engineering Technology, Fall 2004, pp. 18-24.
- McGillivray, R.T., Garbin, E.J., Jr., and Ashmawy, A.K. (2001), "Design of Geogrid Reinforcement for Heavily Loaded Pavement Systems." Proceedings, Geosynthetics 2001, Portland, Oregon, pp. 795-807.
- Mullins, G., Garbin, E., Lewis, C., and Ealy, C. (1998), "Statnamic Testing: University of South Florida Research." Second International Statnamic Seminar, Tokyo, Japan, October 28-30.



## PROFESSIONAL REGISTRATIONS

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- Registered Professional Engineer, State of Alabama, License No. 30749
- Registered Professional Engineer, State of Arizona, License No. 74815
- Registered Professional Engineer, State of Arkansas, License No. 20616
- Registered Professional Engineer, State of Colorado, License No. PE.0061455
- Registered Professional Engineer, State of Delaware, License No. 21937
- Registered Professional Engineer, State of Florida, License No. 61020
- Registered Professional Engineer, State of Georgia, License No. PE033515
- Registered Professional Engineer, State of Idaho, License No. P-21946
- Registered Professional Engineer, State of Illinois, License No. 062.072182
- Registered Professional Engineer, State of Indiana, License No. PE12000220
- Registered Professional Engineer, State of Iowa, License No. P26198
- Registered Professional Engineer, State of Kansas, License No. 29355
- Registered Professional Engineer, State of Kentucky, License No. 37279
- Registered Professional Engineer, State of Louisiana, License No. 42352
- Registered Professional Engineer, State of Maryland, License No. 57152
- Registered Professional Engineer, State of Massachusetts, License No. 56186
- Registered Professional Engineer, State of Michigan, License No. 6201309522
- Registered Professional Engineer, State of Minnesota, License No. 57626
- Registered Professional Engineer, State of Mississippi, License No. 28972
- Registered Professional Engineer, State of Missouri, License No. PE-2020034916
- Registered Professional Engineer, State of Montana, License No. PEL-PE-LIC-72727
- Registered Professional Engineer, State of Nebraska, License No. E-18576
- Registered Professional Engineer, State of New Jersey, License No. 24GE05439100
- Registered Professional Engineer, State of New Mexico, License No. 28562
- Registered Professional Engineer, State of New York, License No. 100371
- Registered Professional Engineer, State of North Carolina, License No. 46733
- Registered Professional Engineer, State of North Dakota, License No. PE-30047
- Registered Professional Engineer, State of Ohio, License No. PE.85473
- Registered Professional Engineer, State of Oklahoma, License No. 32544
- Registered Professional Engineer, Commonwealth of Pennsylvania, License No. PE087328
- Registered Professional Engineer, State of South Carolina, License No. 26854
- Registered Professional Engineer, State of South Dakota, License No. 16494
- Registered Professional Engineer, State of Tennessee, License No. 121447
- Registered Professional Engineer, State of Texas, License No. 129211
- Registered Professional Engineer, State of Utah, License No. 13289410-2202
- Registered Professional Engineer, Commonwealth of Virginia, License No. 0402061061
- Registered Professional Engineer, State of West Virginia, License No. 25116
- Registered Professional Engineer, State of Wisconsin, License No. E-46280-6
- Registered Professional Engineer, State of Wyoming, License No. 19738