

PHILIP A. SCHEMBRI, P.E., M.Th.

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**REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 13531 (ARIZONA)**

AREAS OF PROFESSIONAL EXPERTISE:

Concentrated course work, specialized training, and over thirty-six years of practical application, have resulted in expertise encompassing virtually all aspects of....

**MECHANICAL and STRUCTURAL ENGINEERING.
BUILDING INSPECTION ENGINEERING, ENVIRONMENTAL
SITE ASSESSMENT and PROJECT MANAGEMENT**

...within the fields of Residential and Commercial Building Inspection, Construction Forensic Engineering, Reserve Study Preparation, Project Management, Owner Representation, Facilities Engineering, Design and Inspection of Building Systems, Gas Turbine Design and Development, Satellite Control System Design, Electro-Mechanical Design, Electronics Packaging, Vibration and Thermal Analysis, Design and Analysis of Pointing System and Momentum Exchange Devices, and Xerographic Technology Development.

ACADEMIC DEVELOPMENT:

Bachelor of Science Degree (1976)
MECHANICAL ENGINEERING
Rochester Institute of Technology
Rochester, New York:

- Minored in Thermal/Fluids
- Contributed 100% of tuition/living expenses through participation in the Rochester Institute of Technology's Co-op program while undertaking and completing degree requirements.

Master of Theology (2006)
Phoenix University of Theology
Doctoral Candidate

MEMBERSHIPS/AFFILIATIONS:

NATIONAL ACADEMY OF BUILDING INSPECTION ENGINEERS (NABIE - Charter Member, Executive Member)
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS (NSPE)
ARIZONA SOCIETY OF PROFESSIONAL ENGINEERS (ASPE)
BOARD CERTIFIED BUILDING INSPECTION ENGINEER (BIECI)

PROFESSIONAL EXPERIENCE:

1985 - Present: President of Schembri Engineers, Inc., d/b/a/ Schembri Engineers. Over 11,000 engineering evaluations of residential and commercial properties regarding their structural and mechanical integrity ranging in size from small homes to multi-story high rise towers. Areas of expertise include building diagnostics, inspections, environmental assessment, analysis, maintenance planning, design, code compliance investigations, project management, owner representation, plan review and expert witness testimony/construction forensics. Mr. Schembri has personally performed more than 11,000 building inspections and was Owners' Representative and Project Manager for the \$40,000,000.00 Fort McDowell Gaming Center Project. Have supervised construction of small production to large custom luxury homes, small to large commercial buildings, manufacturing assembly buildings, water treatment facilities, propane tank farms, and water well pumping and storage facilities. Qualified as an expert witness in both the state of Arizona Superior Court and Registrar of Contractor's Office testifying in more than 20 cases as both a plaintiff and defendant expert witness.

2003 to Present: Owner of Permanent Foundations, LLC. Specializing in foundation construction, repair and restoration.

1984 - 1985, 1988: Consulting Engineer to Sperry Flight Systems, Space Systems Division and Commercial Division (now Honeywell). Duties included generation and validation of test plans, test requirement documents, flight hardware acceptance and qualification test procedures and test equipment design specifications. Performed procedures and test equipment design specifications. Performed analysis of mechanical and electrical system failures and formulated troubleshooting and corrective actions for both test system instrumentation and momentum exchange devices. Thermal analysis of flight avionics using the Apollo computer system.

1983 - 1985: Served as a Senior Facilities Engineer, Hughes Helicopters, Inc. (now Boeing). Responsible for multiple-projects coordination including the design, installation, and facilitation of structural, mechanical and electrical systems for the Apache Helicopter manufacturing facility.

1979 - 1983: Served as a Project Engineer, Sperry Flight Systems (now Honeywell). Responsible for design, build, and test of varied attitude control systems for satellite systems such as DSCS 3 and SAMS. Responsibilities also included design of the electro-mechanical interface for the pointing system of the Galileo Project. Other responsibilities included installation of a thermal vacuum chamber at a new facility. Responsible for the chassis casting design, electronics packaging, thermal, structural, and vibration analyses, and High Voltage Power Supply design for the F-16 Multi-Function Display. Activities included the electronics packaging design coordination with electrical engineers, creating engineering documentation, preparation of oral presentations for Preliminary and Critical Design Reviews to government agencies and prime contractors.

1976 - 1979: Engineer with Garrett AiResearch Corporation (now Honeywell) with diversified responsibilities consisting of computer analyses of gas and steam turbine engines with power ratings from 30KW to 300 MW and applications from military to utility size power plants; the preparation of technical progress reports and proposals; and thermodynamic, heat transfer, and stress analysis of rotating group components.

Participated in the Rochester Institute of Technology's engineering co-op program with the Xerox Corporation from September 1973 to August 1976 in the Advanced Research Technology Department.

REFERENCES:

Mr. David Shein, Attorney-at-Law
Mr. Jeff Pyburn, Attorney-at-Law
Mr. Robert Back, Attorney-at-Law
Mr. Fred Friedl, P.E., Senior Project Engineer, Sundt Corp.