

Credentials

**Professional Engineer**

New Jersey License #10073  
New York License #041956-1  
Pennsylvania License #011436-E  
Maryland License #5258  
South Carolina License #15167



Education

**Master of Science in Management Engineering**

Newark College of Engineering, 1956

**Bachelor of Science in Electrical Engineering**

Newark College of Engineering, 1949

**Continuing education** programs such as: Liability in Construction; Contracting for Architect/Engineer Services with Federal Government; Computer Programming; Electrical Industrial Power Systems Coordination; Electrical Protective Relaying; Lightning Protection Design.

Professional Service Positions

NJ State Department of Education Code - Advisory Committee  
NJ State Division of Building and Construction Committee - to develop standardized contractual Procedures for Architects and Engineers.

Public Service Positions

Councilman, Borough of Metuchen, NJ  
Past president and honorary member, Woodbridge Rotary Club  
Zoning Board - Borough of Metuchen, NJ  
Planning Board - Township of Woodbridge, NJ  
Planning Board - Borough of Metuchen, NJ  
Industrial Council - Township of Woodbridge, NJ

Seminars and Publications

"Energy Conservation in Buildings" NJ Society of Architects' Convention.  
"Energy Conservation" Symposium of NJ Department of Energy

Areas of Concentration

Electrical engineering	Electrocution
Mechanical engineering	Security systems
Project management	Lightning protection
Construction contractual relationships	Lighting design & evaluation
Construction documentation	Electrical safety
Contractor performance	Electrical fires
Building electrical systems	Construction cost estimates
Electrical power defects	Illumination measurement
Site electrical distribution systems	Electrical contracting
Electrical control defects	Standard construction practices
Fire detection and alarm systems	Codes & standards
Electrical product defects	Heating, ventilation & air conditioning
Smoke detection and alarm systems	Fire sprinkler systems

Specific Experience & Interest

Condominium and residential developments  
Commercial construction  
Ferry docking facilities  
Hospitals and institutions  
Correctional institutions - jails, prisons and police stations  
Recreational facilities - parks, tennis courts, Golf courses and driving ranges  
Schools - elementary, secondary and college facilities  
Gambling Casinos  
Industrial Projects  
Sports Lighting - Football, Baseball, Softball, Tennis, Track, Horse Racing

Professional Associations

Illuminating Engineering Society  
National Society of Professional Engineers  
American Society of Heating, Refrigeration and Air Conditioning Engineers  
Building Officials and Code Administrative International, Inc.  
Institute of Electrical and Electronic Engineers  
Association of Energy Engineers

Relevant Information

Instructor at Newark College of Engineering in Electrical Contract Estimating and Lighting Design

Professional Experience

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**Institute for Products, Engineering and Construction** **1992-Present**

Consulting engineering services for electrical and mechanical projects. Analysis of defects in electrical systems, components and products. Consultation in fields of construction and product safety; construction means, methods and relationships, electrical accidents and electrocution.

**Donald J. Barnickel, P.E. - Consulting Engineer** **1984-Present**

Consulting engineering services for electrical and mechanical construction projects. Analysis of on-site technical problems during and after construction. Review of the contractual relationships relating to the standards of the industry. Analysis of construction cost claims.

Participation in various administrative, arbitration and legal processes involved in dispute resolution.

**Barnickel Engineering Corp. - President** **1960 - 1992**

Administered and supervised the design, specifications and field administrative functions for mechanical and electrical engineering services for over one thousand diverse projects. Projects have included master planning, design of site utilities for multiple building complexes, as well as, commercial, industrial, educational, institutional and multi-family residential construction.

Developed microcomputer programs to enhance productivity and accuracy of mechanical and electrical engineers.

**A.L. Davis Company, Inc. - Vice President** **1949 - 1960**

Provided construction and electrical design/build services for projects in the commercial, industrial and institutional categories. Provided cost estimating, electrical design and specifications, as well as, field supervision and administration of construction activities.