



## EDUCATION

Bachelor of Science in Electrical Engineering  
Georgia Tech, Atlanta, Georgia  
Bachelor of Science Mathematics  
Clark Atlanta University, Atlanta, Georgia

## PROFESSIONAL REGISTRATIONS

Registered Professional Engineer in Florida and Illinois

## PROFESSIONAL AFFILIATIONS

Member of Institute of Electrical and Electronics Engineers (IEEE)  
Member of Illuminating Engineering Society of North America (IESNA)

## CREDENTIALS

The Ohmega Group 2005 -  
Reynolds, Smith & Hills, Inc. 2000 - 2005  
Patrick Engineering, Inc. 1997 - 2000



Professional Engineer with more than fifteen years experience in project management; electrical design of power distribution systems, lighting and controls, security systems, fire alarm systems, and voice and data communication systems; airfield engineering services; and cost engineering and analysis for residential, industrial, commercial, utilities, institutional, military, and aviation clients.

## RELEVANT PROJECT EXAMPLES



*Dunkin Brands*

### **FOOD & BEVERAGE:**

**Dunkin Brands, Jacksonville, Florida, Atlantic Boulevard** – Donut and ice cream shop (2,500 S.F.)

**Dunkin Brands, Jacksonville, Florida, Merrill Road** – Donut and ice cream shop (2,500 S.F.)

**McDonald's Corporation, Oak Brook, Illinois** - Performed electrical design and analysis for McDonald's restaurants. The designs included lighting and power distribution to kitchen equipment based on type of utility available, such as gas, electric, or split. Also responsible for adherence to ASHRAE, NEC, and local codes. Restaurants varied from stand-alone types to restaurants with gas stations and convenience stores.

**Steapers Tea Shoppe, Jacksonville, Florida** - Performed electrical analysis and design for the renovation of a commercial shell space to add a new tea shop.

### **AVIATION:**

**Terminal Expansion and Renovation, Jacksonville International Airport, Jacksonville, Florida** - Electrical design and construction administration for the renovation of the airport main terminal building. The design included power distribution, lighting, security, fire alarm and communications.

**Parking Garage, Jacksonville International Airport, Jacksonville, Florida** - Design of a new parking garage. Design of revenue collection system for the airport parking system. The design included power distribution, lighting, security, fire alarm and communications.

*Grand Turk Int'l Airport**Jacksonville Int'l Airport**Flight Information Display Systems (FIDS)**Voice & Data Network Infrastructure**Airfield Lighting Systems***Roadway Lighting and Signage, Jacksonville International Airport, Jacksonville, Florida -**

Design of roadway lighting and signage systems at the main entrance and exit to the airport. Design of revenue collection system for the airport parking system. The design included power distribution, lighting, and communications.

**New Terminal Complex, Cherry Capital International Airport, Traverse City, Michigan -**

Electrical design and construction administration for the construction of a new airport terminal building. The design included power distribution, lighting, security, fire alarm and communications. The design also included roadway and parking area lighting.

**New Terminal Building, Grand Turk International Airport, Turks & Caicos Islands, BWI -**

Electrical design for the construction of a new airport terminal building on the capital Island of the Island chain. The design included normal and emergency power distribution, lighting, security infrastructure, fire alarm and communications systems. The design also included roadway and parking area lighting.

**Terminal Expansion and Renovation, Montgomery Regional Airport, Montgomery, Alabama -**

Electrical design and construction administration for the renovation of the airport main terminal building. The design included power distribution, lighting, security, fire alarm and communications.

**Terminal Expansion and Renovation, Bishop International Airport, Flint, Michigan -**

Electrical design and construction administration for the renovation of the airport main terminal building. The design included power distribution, lighting, security, fire alarm and communications.

**Terminal Expansion and Renovation, Brunswick Golden Isles Airport, Brunswick, Georgia -**

Electrical design and construction administration for the renovation of the airport main terminal building. The design included power distribution, lighting, security, fire alarm and communications.

**Security System Upgrade, Capital City Airport, Lansing, Michigan -**

Design of access control systems and CCTV systems for the airport terminal and perimeter areas. Design included the addition of a new communications center for the airport security staff.

**Security System Upgrade, Pensacola Regional Airport, Pensacola, Florida -**

Design of access control systems and CCTV systems for the airport terminal and perimeter areas. Design included the addition of a new communications center for the airport security staff.

**Security System Upgrades, Rick Husband Amarillo International Airport, Amarillo, Texas -**

Design of access control systems and CCTV systems for the airport terminal and perimeter areas. Design included the addition of a new communications center for the airport security staff.

**Perimeter Security System, Toledo-Lucas Port Authority, Toledo, Ohio -**

Provided design and construction administration services for the installation of a state-of-the-art video detection CCTV system at Seaport, Shipyard and Coast Guard facilities. The design included software based intelligent video detection algorithm and digital video cameras.

**WI-FI, Tampa International Airport, Tampa, Florida -**

Design of power and communications infrastructure to support the addition of wireless access points (WAPs) to provide wireless internet access to the traveling customers and airport staff.

**Corporate Hangar, Aurora, Illinois -**

Electrical design for the construction of a new hangar facility.

The design included power distribution lighting, fire alarm, communications and aircraft grounding.

**Corporate Hangar, Milwaukee, Wisconsin -**

Electrical design for the construction of a new hangar facility.

The design included power distribution lighting, fire alarm, communications and aircraft grounding.

**Port Columbus International Airport, Columbus, Ohio -**

Provided construction observation services for the Airfield Lighting Control and Monitoring System. Project included installation of two Airfield Lighting Control Panels (L-821) and the installation of computerized control system computers in the Air Traffic Control Tower and Airfield Lighting Electrical Vault.

**Tampa International Airport, Tampa, Florida -**

Provided construction observation services for the lighting of the Taxiway "J", Taxilane "K" and Air Cargo Apron Project. Project included replacement of existing edge lighting system and providing new edge lighting system with new isolation transformers and 5000V Airfield Lighting Cable.

**McKinnon Airport, St. Simons Island, Georgia -**

Provided inspection and troubleshooting services of the existing Taxiways "A" and "D" airfield lighting system. Project included assessment



Jacksonville Transportation Authority



Airfield Navigational Aids (NAVAIDS)



Cummer Museum Addition



Community Presbyterian Church

of the physical condition of wiring, connectors and light fixtures. Project also included replacement of selected wiring connectors using heat shrink and performing megger readings to assess cable resistance. A complete report that outlined the engineer's recommendations was written and submitted.

**Golden Isles Airport, Brunswick, Georgia** - Provided inspection services of the existing Airfield Electrical Vault. Project included inspection of the Constant Current Regulators (CCR), emergency generator and outbound lighting cables. A complete report outlining the engineer's recommendations was written and submitted.

**Jacksonville International Airport, Jacksonville, Florida** - Provided design services for the new Taxiway "B" and General Aviation Apron edge lighting system. The project included load analysis on existing Constant Current Regulators (CCR), providing lower wattage LED lamps and signage.

**Peter O. Knight Airport, Tampa, Florida** - Provided design and construction administration services for the installation of a new Precision Approach Path Indicators (PAPI) and Runway End Identifier Light (REIL) systems at the airport's primary runway. The design included power and communication systems.

**Peter O. Knight Airport, Tampa, Florida** - Provided design and construction administration services for the installation a new Automated Weather Observation System (AWOS) at the airport's primary runway. The design included wireless UHF & VHF communications.

**Perry-Foley Airport, Perry, Florida** - Provided design and construction administration services for the installation a new Automated Weather Observation System (AWOS) at the airport's primary runway. The design included wireless UHF & VHF communications.

**Plant City Airport, Plant City, Florida** - Provided design and construction administration services for the installation a new Automated Weather Observation System (AWOS) at the airport's primary runway. The design included wireless UHF & VHF communications.

**Vandenberg Airport, Tampa, Florida** - Provided design and construction administration services for the installation a new Automated Weather Observation System (AWOS) at the airport's primary runway. The design included wireless UHF & VHF communications.

**Vandenberg Airport, Tampa, Florida** - Provided design and construction administration services for the installation a new Instrument Landing System Glide Slope (ILS-GS) Facility at the airport's primary runway. The design included airfield lighting, signage, NAVAIDS, power and communication systems.

**Toledo Express Airport, Toledo, Ohio** - Provided design and construction administration services for the removal of a taxiway determined to be too close to the airport's primary runway. The design included airfield lighting design, modifications to the airfield electrical vault and modifications to the existing airfield lighting control system.

**Owasso Airport, Owasso, Michigan** - Provided design and construction administration services for the extension and improvements of the airport's primary runway. The design included airfield lighting, guidance signage, PAPI, REILS, new airfield electrical vault and airfield lighting control system.

**Monroe-Custer Airport, Monroe, Michigan** - Provided design services for the replacement of the airport's primary runway medium-intensity lighting system. The design included airfield lighting, guidance signage, PAPI, REILS, new airfield electrical vault and airfield lighting control system.

**Pensacola Regional Airport, Pensacola, Florida** - Provided design and construction administration services for the extension and improvements of one of the airport's two (2) primary runways. The design included airfield lighting, PAPI, REILS, airfield electrical vault modifications and airfield lighting control system.

**Akron-Canton Airport, Akron, Ohio** - Provided design and construction administration services for the construction of (2) aircraft de-icing pads. The design included apron lighting, airfield lighting, guidance signage, airfield electrical vault modifications and lighting & valve controls.

**Duluth International Airport, Duluth, Minnesota** - Provided construction observation services for the installation of a new Category II ILS and Mid-Field RVR facility.

**Duluth International Airport, Duluth, Minnesota** - Provided construction observation services for the installation of a dual mode high intensity approach lighting system with sequenced flashing lights (ALSF-2/SSALR).

**Orlando Sanford International Airport, Sanford, Florida** - Provided design and construction

*New Berlin Elementary School**Dr. Tiomico-Trahan Office**Steapers Tea Shoppe*

administration services for the construction of a Category I Instrument Landing System (ILS) and Medium Intensity Approach Lighting System with Runway Alignment Indicator (MALSR) as part of the Runway 9R-27L extension.

**Palatka Municipal Airport, Palatka, Florida** - Provided design and construction administration services for the replacement of the airfield lighting system for Runway 17-35 and Taxiway C, a new AWOS-IIIP/T and a backup generator at the airfield lighting vault.

### **SPORTS & ENTERTAINMENT**

**Entertainment and Sports Arena, North Carolina State University, Raleigh, North**

**Carolina** - Performed cost analysis and cost estimates for construction of an entertainment and sports complex that will host indoor college sports and theatrical events. Special emphasis on theater and sports arena lighting and controls.

**Olympic Basketball Venue, Morehouse College, Atlanta, Georgia** - Performed cost analysis and estimates for construction of basketball training/practice facility for the Olympic basketball teams.

**Olympic Aquatic Center, Georgia Tech, Atlanta, Georgia** - Performed cost analysis and cost estimates for construction of the aquatic facility for the Olympic aquatic events.

### **MANUFACTURING:**

**Marble Today, Palatka, Florida** - Marble kitchen countertop manufacturing (40,000 S.F.)

### **DISTRIBUTION:**

**Cooper Lighting Warehouse, Georgia** - Performed cost analysis and cost estimates for construction of a distribution warehouse.

### **HEALTH CARE**

**Veterans Administration Hospital, Building Renovations, Hines, Illinois** - Performed electrical design and analysis for the renovation of various buildings on the VA campus. The design included lighting, security, fire alarm and power distribution.

**Veterans Administration Hospital, Tampa Florida** - Performed electrical design and analysis for the renovation of various buildings on the VA campus as the open-ended IDIQ consultant. The design included lighting, security, fire alarm and power distribution.

**Swedish American Hospital MRI, Rockford, Illinois** - Performed electrical design and analysis for the renovation of a MRI suite within a hospital. The design included lighting, fire alarm and power distribution. The design also included electrical coordination with manufacturer's drawings for the installation of the MRI equipment.

**Dr. Tiomico-Trahan Office, Jacksonville, Florida** - Performed electrical design and analysis for the renovation of a medical office suite. The design included lighting, fire alarm and power distribution.

**Dr. Coluccelli Office, Jacksonville, Florida** - Performed electrical design and analysis for the renovation of a medical office suite. The design included lighting, fire alarm and power distribution.

### **EDUCATION:**

**Lacon Grade School, Lacon, Illinois** - Performed electrical analysis of the power distribution system to determine if there is adequate capacity to add portable air conditioning units to each classroom. Project included the preparation of a performance specification and design narrative.

**Sparland Middle School, Sparland, Illinois** - Performed electrical analysis of the power distribution system to determine if there is adequate capacity to add two new chillers to the facility. Project included the preparation of a performance specification and design narrative.

**Annual Electrical Engineering Consultant (2005 - Present), Duval County Public Schools, Jacksonville, Florida** - Provide on-call electrical engineering design and consulting service to the DCPS for various schools throughout the county school system.

**University of Wisconsin at Milwaukee, Golda Meir Library, Milwaukee, Wisconsin -**

Performed electrical analysis and design for the upgrade of the security and safety system at the campus' main library. The project included CCTV, public address, panic alarms, access control, hotline (911) telephones, delayed entry and motion alarms.

**New Berlin Elementary School, Jacksonville, Florida -** Performed electrical commissioning for the construction of new elementary school. Commissioning process included generator load testing, fire alarm testing, equipment verification, and inspection of the electrical installation from start to finish.

**Chaffee Road Elementary School, Jacksonville, Florida -** Performed electrical design review for the construction of a new school.

**COMMERCIAL:**

**Alterra Office & Warehouse, Jacksonville, Florida –** Office building and warehouse (14,100 S.F.)

**State Farm Office, St. Augustine, Florida –** Office building (5,000 S.F.)

**Duval Station Office Park, Jacksonville, Florida –** 5 Office buildings (35,000 S.F.)

**Toll Brothers Design Center, Jacksonville, Florida –** Home design showroom and office (10,000 S.F.)

**Lewis Office, Jacksonville Beach, Florida –** 2 Office building towers (13,331 S.F.)

**Eastland Office, Ponte Vedra Beach, Florida –** Office building (3,500 S.F.)

**First Bank, Lakewood Branch, Jacksonville, Florida –** Bank and office building (11,360 S.F.)

**CULTURAL:**

**Cummer Museum, Jacksonville, Florida –** Museum expansion (30,000 S.F.)

**1515 San Marco Gallery, Jacksonville, Florida –** New gallery expansion (2,900 S.F.)

**RESIDENTIAL:**

**River Road Condominiums, Jacksonville, Florida –** 3 level Single Family Condos (9,000 S.F.)

**Fletcher Residence, Jacksonville Beach, Florida –**Single Family Home (3,000 S.F.)

**Jones Residence, Jacksonville Beach, Florida –**Single Family Home (3,000 S.F.)

**Novak Residence, Jacksonville Beach, Florida –**Single Family Home (3,000 S.F.)

**3332 Isabella Residence, Jacksonville Beach, Florida –**Single Family Home (3,260 S.F.)

**1642 7<sup>th</sup> Street Residence, Jacksonville Beach, Florida –**Single Family Home (3,975 S.F.)

**1639 7<sup>th</sup> Street Residence, Jacksonville Beach, Florida –**Single Family Home (3,975 S.F.)

**Hopkins Residence, Jacksonville Beach, Florida –**Single Family Home (3,000 S.F.)

**Walker Residence, Jacksonville, Florida –**Single Family Home (4,600 S.F.)

**Promenade Point Residence, St. Augustine, Florida –**Single Family Home (8,390 S.F.)

**RELIGIOUS:**

**Community Presbyterian Church, Jacksonville Beach, Florida –** Multi-building renovation and addition (18,000 S.F.)

**Christ's Church Fleming Island, Orange Park, Florida –** Multi-building renovation and addition (35,000 S.F.)