Consulting Engineering Associates, Inc. (CEA) is a company founded on a spirit of excellence and a commitment to quality. Incorporated in 1998 and based in Tampa, Florida, CEA serves the entire state of Florida providing mechanical HVAC, plumbing, and fire protection consulting services for commercial, residential, industrial, institutional, health care, governmental and educational facilities.


CEA’s principal, John W. Wells, III, PE, has over 20 years of engineering experience. Under his leadership, CEA employs a philosophy of undertaking each individual project with a standard of care maintained throughout the entire staff. It is this sense of achievement and enthusiasm that sets CEA apart from the rest.

Mr. Wells was honored to receive the Engineer of the Year Award presented by the Florida West Coast Chapter of ASHRAE on February 15, 2008.

Established: 1998

Number of Employees: 6 full-time, 1 part-time

Type of Services: Mechanical Engineer Commissioning Authority

Principal: John W. Wells, III, PE President

Licenses: Florida License #3962
           PE License #49347

Firm Insurance:
General Liability - $1,000,000
Professional Liability - $1,000,000

Largo Community Center

Sarasota Fire Station #3

Mosaic Florida Headquarters
John W. Wells, III, PE, LEED AP
President/Principal

John W. Wells, III, PE is a licensed Mechanical Engineer in the state of Florida, and is President of Consulting Engineering Associates, Inc., a mechanical engineering firm in Tampa, Florida. Mr. Wells has served on ASHRAE, an international engineering technical society organized to advance the art of HVAC, on the chapter level for over fifteen years, and at the society level for eight years. His engineering experience includes design of mechanical systems for manufacturing facilities, libraries, schools, commercial ventures, health care, residential and other types of facilities ranging in value from thousands of dollars to multi-million dollar projects. He became a LEED Accredited Professional in September of 2006, and has been very active as both a LEED Administrator and as a Commissioning Agent.

REGISTRATION:
FLORIDA PE#49347

REPRESENTATIVE EXPERIENCE:

Celebration C5 Office Building (Energy Model for LEED Silver project) - Celebration, Florida
City of Lakeland Solid Waste (Enhanced Commissioning for LEED project) – Lakeland, Florida
HART 21st Avenue (Enhanced Commissioning for LEED project) - St. Petersburg, Florida
Kyra InfoTech, Inc. (Energy Model for LEED Silver project) – Lakeland, Florida
Largo Community Center (Design & Energy Analysis for LEED Platinum project) - Largo, Florida
Magnify Credit Union (Design & Energy Model for LEED Gold project) – Lakeland, FL
Mosaic Florida Headquarters (Enhanced Commissioning for LEED Gold project) - Lake Hutto, Florida
Pinellas County Public Works Complex (Enhanced Commissioning for LEED project) – Pinellas County, Florida
Polk State College Chain of Lakes Collegiate High School (Enhanced Commissioning for LEED project) Winter Haven, FL
Progress Energy (Fundamental Commissioning for LEED project) - Wildwood, Florida
Progress Energy (Enhanced Commissioning for LEED project) – Crystal River, Florida
Sarasota Fire Station #3 and #15 (Enhanced Commissioning for LEED Silver projects) - Sarasota, Florida
St. Petersburg Fire Station #8 (Commissioning for LEED project) - St. Petersburg, Florida
VA VISN at Franklin Templeton (LEED Administration, Commissioning, and Energy Model) – St. Petersburg, Florida

EDUCATION:
Bachelor of Science
Mechanical Engineer
University of South Florida
1990

PROFESSIONAL ORGANIZATIONS:
ASHRAE
Florida Engineering Society (FES)
US Green Building Council (USGBC)
NSPE
Florida Institute of Consulting Engineers

AWARDS:
Engineer of the Year Award presented by Florida West Coast Chapter, ASHRAE
February 15, 2008
Distinguished Service Award presented by ASHRAE
February, 2009
Mr. Newman has been an HVAC design engineer for over sixteen years. He offers extensive experience in the design of heating, ventilation and air conditioning systems for commercial and industrial facilities. He has designed chilled water systems, clean rooms, ventilation equipment, water-cooled self-contained units and direct expansion cooling systems for Fortune 500 clients. He has been involved with the LEED process and Commissioning since 2007, and has designed HVAC systems for LEED buildings which included the LEED modeling and template process. Most recently, Mr. Newman earned the Commissioning Process Management Professional certification from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

REGISTRATION:
FLORIDA PE#9071

REPRESENTATIVE EXPERIENCE:

City of Lakeland Solid Waste (Enhanced Commissioning for LEED project) – Lakeland, Florida
Duke Realty - Celebration C5 Office Building (Design for LEED Silver project) – Celebration, Florida
Crosstown Center One (LEED Design) -Tampa, Florida
HART 21st Avenue (Enhanced Commissioning for LEED project)
- St. Petersburg, Florida
Jacaranda Library (LEED Commissioning) – Sarasota, Florida
Magnify Credit Union (Enhanced Commissioning for LEED Gold project) – Lakeland, Florida
Mosaic Building Headquarters (Enhanced Commissioning for LEED Gold project)– Lake Hutto, Florida
North County Library (LEED Commissioning) – Sarasota, Florida
Pinellas County Public Works Complex (Enhanced Commissioning for LEED project) – Pinellas County, Florida
Polk State College Chain of Lakes Collegiate High School (Enhanced Commissioning for LEED project) - Winter Haven, FL
Progress Energy (Fundamental Commissioning for LEED project)
– Wildwood, Florida
Progress Energy (Enhanced Commissioning for LEED project) – Crystal River, Florida
Sarasota Fire Station #15 (Enhanced Commissioning for LEED Silver project) – Sarasota, Florida
Sarasota Fire Station #3 (Enhanced Commissioning for LEED Silver project) – Sarasota, Florida
St. Petersburg Fire Station #8 (Fundamental Commissioning for LEED project) – St. Petersburg, Florida
VA VISN at Franklin Templeton (Commissioning for LEED project)
– St. Petersburg, Florida

EDUCATION:
Bachelor of Science, Mechanical Engineer, University of Florida, 1961

PROFESSIONAL ORGANIZATIONS:
LEED Accredited Professional, 2007
American Institute of Heating and Air Conditioning Engineers
Instrument Society of America, Past Senior Member
Unlimited Steam and Refrigeration License, Hillsborough County, Florida
Mr. Vieira is a graduate from the University of South Florida, with both a Mechanical Engineering and Electrical Engineering degree. He first worked as an intern with CEA in 2006, and then became a full time employee in 2007 when he graduated. He utilizes his engineering expertise to develop heating and cooling load calculations, verify building and system compliance with current energy codes, develop life cycle cost analysis of mechanical systems, and assist in the preparation of construction documents for all types of facilities. He became a LEED Accredited Professional in January of 2009, and has been the Commissioning Agent on multiple projects.

EDUCATION:
Bachelor of Science
Mechanical Engineer
University of South Florida, 2005

Bachelor of Science,
Electrical Engineer,
University of South Florida, 2007

PROFESSIONAL ORGANIZATIONS:
ASHRAE
US Green Building Council

SOFTWARE PROFICIENCY:
MS Office
AutoCAD 2004 (Through 2009)
Trace 700 (Energy Modeling)
CHVAC (Load Calculation Software)
RHVAC (Load Calculation Software)
Energy Gauge Summit (Florida Commercial Energy Code Compliance Software)
Energy Gauge USA (Florida Residential Energy Code Compliance)
Magnify Credit Union (formerly Community First Credit Union) in Lakeland, Florida received a LEED GOLD design ranking by the US Green Building Council. This building was touted as Florida's first "Net Zero Energy" Commercial Building, however, it is still in its first year of operation.

CEA designed the HVAC and Plumbing systems and provided the Energy Model for this project.

Design services included high efficiency HVAC design, anticipating 10 LEED points under Energy & Atmosphere Credit 1 (EAc1) when combined with high efficiency glazing, wall and roof construction, and a large array of photovoltaic panels.

The plumbing design consisted of a water harvesting system for restroom use, and a selection of low consumption plumbing fixtures.

A building energy simulation was performed to demonstrate complete energy savings under EAc1.
**Project:** Mosaic Building Headquarters  
**Location:** Lake Hutto, Florida  
**CEA’s Role:** Commissioning Authority, LEED Administrator  
**Construction Cost:** $20,000,000  
**Constructed:** 2009 - 2010

Mosaic Company’s new construction in Lake Hutto, Florida was built to serve as the headquarters for Mosaic's phosphate business unit and supply chain group. CEA provided the LEED Fundamental Commissioning and LEED Enhanced Commissioning, and was also the LEED Administrator for this 110,000 square foot, 4-story building.

Mosaic received a LEED Gold Certification under the New Construction rating system for this building in November 2011.

One of the interesting aspects of this project is the high reflectivity, low heat-gain glazing, used to maintain low heat loads on the mechanical system and decrease utility demand.
Project: Sarasota Fire Station #3  
Location: Sarasota, Florida  
CEA’s Role: Commissioning Authority  
Construction Cost: $2,132,182  
Constructed: 2008-2009

CEA was the LEED Enhanced Commissioning Agent for this 7,200 square foot new fire station. This project is attempting the LEED Silver certification under the New Construction rating system.

Some of the design aspects of the building included: high efficiency air handling units, high efficiency building envelope, gray water systems for irrigation and restrooms, solar hot water heating, low flow/low consumption plumbing fixtures, non CFC/HCFC refrigerants, and high efficiency lighting with occupancy sensors.

CEA’s responsibilities included analyzing LEED credits, submittal review, supervising Prefunctional and Functional tests, and uploading the Final Commissioning Report to the USGBC website for LEED Certification.