

Vitelio Silva, University of Florida

IAC Roots

During his tenure with the University of Florida Industrial Assessment Center (UF-IAC), Vitelio Silva earned two Master of Science degrees—one in Industrial and Systems Engineering and the other in Business Administration with a concentration in management. During Mr. Silva's 2 years in the UF-IAC, he completed 25 assessments.

As Lead Student Engineer at the UF-IAC, he coordinated teams and conducted energy assessments across the states of Florida and south Georgia. He performed engineering and economic analyses for numerous recommendations that resulted in energy efficiency, waste management, and productivity savings opportunities worth more than \$3.5 million. Dr. Diane Schaub, Director UF-IAC, names Vitelio "...one of the best IAC students we've ever had at the Florida IAC." In addition, while serving as Lead Student, he attended and presented on efficient motor estimation at the 2008 IAC Lead Student Conference in Washington, D.C.

One of Mr. Silva's most memorable IAC experiences came when he was speaker and co-author of the research paper "A New Approach to Motors Efficiency Estimation in an Industrial Energy Management System" delivered at the 2007 World Energy Engineering Congress in Atlanta, Georgia. With very short notice and little time for preparation, Vitelio was tapped to stand in for IAC Technical Manager, Dr. Cristian Cardenas, to present "Renewable Energy Sources: Biogas- and Tire-Based Fuels for Industrial Use," in addition to his own paper. He delivered both presentations without missing a beat.

Career Highlights

Mr. Silva is now a Senior Performance Assurance Engineer at Johnson Controls, Inc. In less than two years there, he has coordinated, verified, and reported more than \$9.5 million in project savings and cost avoidance. He has also conducted performance measurement and verification (M&V) services

including \$73 million in performance contract guarantees and \$3.3 million in service agreements. These services include high-efficiency energy retrofits, water meter projects, and renewable energy projects provided for federal installations, higher education facilities, and city and local governments. He is currently responsible for analyzing, verifying, and reporting on the performance of a solar photovoltaic system at the Orange County Convention Center in Orlando, Florida. This 200,000 square foot solar array generates 1 Megawatt of power making it the largest rooftop installation in the southeast United States.



Vitelio Silva, IAC alumnus from the University of Florida



Solar photovoltaic system at the Orange County Convention Center

Mr. Silva's significant IAC experience in leading and coordinating evaluations has allowed him to excel at his current position. He has effectively implemented successful waste reduction and optimization programs in manufacturing plants resulting in over \$100K in savings. He has also performed evaluations on existing material handling systems making savings recommendations worth more than \$40K.

Mr. Silva has evaluated industrial machinery around the world, including South Africa, Spain, the United Kingdom, and the United States. His experience includes designing manufacturing processes and compressed air systems. During his career, Vitelio has provided consulting services as well as inspection and field operation supervision to both the manufacturing and service industry.

Mr. Silva is an Associate Member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), a Certified Energy Manager (CEM), and a Leadership in Energy and Environmental Design Accredited Professional (LEED AP). He is also a Certified Measurement and Verification Professional (CMVP).



He credits the IAC with igniting his interest in the energy conservation field. Armed with his invaluable IAC experience, he has been able to make a significant impact by helping businesses become more energy efficient, productive, and environmentally friendly.

Melinda Morgan, who hired Mr. Silva at Johnson Controls, greatly values his IAC experience: "I have hired IAC graduates at bachelors, masters, and Ph.D. levels. Vitelio was able to be productive from his first day on the job because of training and experience he had gained through the IAC program. This only solidifies my commitment to keep hiring IAC graduates..."

"Vitelio was able to be productive from his first day on the job because of training and experience he had gained through the IAC..." – Melinda Morgan, Johnson Controls, Inc.

Focus on the Future

Mr. Silva plans to remain in the energy efficiency field building on the skills he developed in the IAC.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

ABOUT ITP:

The Industrial Technologies Program (ITP) is part of the DOE's Office of Energy Efficiency and Renewable Energy. A program area of ITP, the Industrial Assessment Centers provide eligible small- and medium-sized manufacturers with no-cost energy assessments. Additionally, the IACs serve as a training ground for the next-generation of energy-savvy engineers.

ADDITIONAL INFORMATION:

EERE website:
www.eere.energy.gov

ITP website:
www.eere.energy.gov/industry/

IAC student forum website:
www.iacforum.org

EERE Information Center:
1-877-EERE-INF
(1-877-337-3463)

July 2010

