

# Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

**RENE I. BASULTO, P.E., LEED AP, CxA, CGC, CPE, CPD**  
**Mechanical Engineer – Building Systems**

## PROFESSIONAL EXPERIENCE

2010 to present **Robson Forensic, Inc.**  
*Associate*

Provide technical investigations, analysis, reports, and testimony toward the resolution of commercial and personal injury litigation involving all aspects of mechanical systems for buildings. Areas of expertise include:

### **HVAC:**

- Load calculations and system design, installation and maintenance.
- Central chilled water plants, DX, closed circuit fluid coolers, chillers, cooling towers, variable refrigerant flow, process cooling systems.
- Controls: temperature and humidity control, safety, energy management, DDC.
- Distribution: Air handlers and ductwork, pumps and piping, noise control, fire safety, variable air volume.
- Ventilation: outdoor air, sick building syndrome, indoor air quality, energy recovery, grease laden air systems, restaurant ventilation systems, smoke control, clean room environment systems.

### **Plumbing, Water and Sewage:**

- Domestic cold and hot water: temperature controls, water hammer and surge suppression, washdown systems, water treatment, flooding, scalding.
- Sewage systems: Gravity and pumped, grease interceptors, sludge dewatering, sludge pumping station, odor control, overflows.
- Gas systems: Natural and propane gas, gas piping, regulators, appliances.

### **Industrial Systems:**

- Process: High pressure air and steam, hydraulic systems, ammonia refrigeration, flash mixing, pumps and controls, flare systems, digester gas systems, engines, generators. Medical gas systems. Explosion-proof equipment.
- Air Quality and Ventilation: Fans, ductwork, exhaust hoods, fans, blowers. Clean air systems, wet scrubbers, carbon absorbers, cyclone separators, dust collection, biofilters, activated carbon filtration, odor control, clean room production areas.

### **Fire Science and Fire Protection Engineering:**

- Thermodynamics, heat transfer, fluid mechanics, combustion, fire safety, smoke movement.
- Wet, dry, and double interlock preaction sprinkler systems, in-rack systems, stand pipe, ESFR systems, Halon suppression systems, fire pump systems, jockey pumps, vertical turbine fire pumps, water storage tanks and ponds, hydraulic analysis.

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### Types of Facilities:

- Educational, bio-pharmaceutical, healthcare, food and beverage processing and packaging, bio-labs, R&D labs, clean room environments, vehicle maintenance, commercial, retail supermarkets, data centers, hospitality, residential, fueling stations.

2007 to present **University of Miami – School of Architecture**

*Part-time Faculty - Professor*

Teaching Graduate and Undergraduate level courses in Building Systems with concentration on renewable and sustainable design.

1993 to present **Basulto & Associates, Inc. Consulting Engineers**

*Principal*

Professional engineering firm providing mechanical, electrical, plumbing and fire protection consulting services. The firm specializes in the design, construction management, plan review, and code compliance inspections of commercial, industrial, educational, medical and governmental projects in the public as well as the private sector.

1989 to 1993 **Pinera-Basulto, Inc. Consulting Engineers**

*Principal, Director of Engineering*

Designed and managed construction for HVAC, plumbing, fire protection and process systems in a variety of commercial, industrial and educational buildings.

1988 to 1989 **Wolfberg, Alvarez and Associates**

*Mechanical Engineer*

Designed HVAC and other mechanical systems. Projects include: 10 story VA Medical Center in Palm Beach, Miami Mac Arthur North High School, and several projects for the US Corps of Engineers, GSA and Miami-Dade County Public Schools.

1987 to 1988 **The Trane Company**

*Instructor/Training Coordinator – Field Service Administrator*

Provided technical and educational support on special applications and service to HVAC Contractors and Engineers. Responsible for coordinating training programs for Trane's personnel and dealers service. Field implementation and testing of new technologies.

1980 to 1987 **Llorens-Pinera, Inc. Consulting Engineers**

*Mechanical Engineer, Associate Director Mechanical Engineering*

Designed mechanical systems for a wide variety of commercial and industrial projects FP&L, Publix Supermarkets, B&B Markets, and Walgreens among others.

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## PROFESSIONAL CREDENTIALS

Professional Engineer: Arizona, California, Connecticut, Florida, Georgia, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Virginia, Washington, Wisconsin  
Registered Mechanical Inspector, International Code Council  
Registered Mechanical Plans Examiner, International Code Council #476  
General Contractor, Florida  
Certified Plans Examiner, Florida  
Certified Inspector, Florida  
Certified Commissioning Authority (CxA), AABC Commissioning Group  
Certified Plant Engineer (CPE), Association for Facilities Engineering  
Certified in Plumbing Design (CIPE / CPD), American Society of Plumbing Engineers  
Network Critical Physical Infrastructure (NCPI) - Certified  
Environmental Mold Inspection & Remediation Certified  
U.S. Green Building Council: LEED AP

## EDUCATION

Bachelor of Science, Mechanical Engineering Florida International University, College of Engineering and Applied Sciences, Certification: Heating, Ventilation and Air Conditioning  
Associates in Arts, Engineering Degree, Miami-Dade Community College

## PROFESSIONAL AFFILIATIONS

American Society of Heating, Refrigeration & Air Conditioning (ASHRAE)  
American Society of Plumbing Engineers (ASPE)  
Chapter VP-Technical 1996 - 1999  
Association for Facilities Engineering (AFE)  
Chapter Secretary 2001 - 2003  
Association of Cuban Engineers  
President 1992 – 1993  
Building Commissioning Association  
International Code Council (ICC)  
National Council of Examiners for Engineering and Surveying (NCEES)  
National Fire Protection Association (NFPA)