

# ANDREW W. HUGHES

LABORATORY COORDINATOR CONSTRUCTION MANAGEMENT DEPARTMENT  
U. A. WHITAKER COLLEGE OF ENGINEERING  
10501 FGCU BOULEVARD SOUTH  
FORT MYERS, FL 33965-6565  
[AHUGHES@FGCU.EDU](mailto:AHUGHES@FGCU.EDU), HOLMES HALL 105

## Education

Indiana State University – Terre Haute, IN

Mechanical Technology, Bachelor of Science - 1992

George Meany National Labor College – Silver Springs, MD

Labor Education, Bachelor of Science – 2005

Ivy Tech Community College – Indianapolis, IN

Applied Science in Apprenticeship Technology Sheet Metal - 2001

## Professional Experience

### Florida Gulf Coast University Construction Management Laboratory Coordinator August 2019 – Present

- ◆ Instructing of construction methods laboratory projects
- ◆ Assisting professors with demonstrations and classroom activities
- ◆ Ensuring safety and safety training for all students and faculty of the U.A. Whitaker College of Engineering
- ◆ Maintaining of equipment used in the Construction Management program
- ◆ Classroom and laboratory activities have material and safety equipment available and ready for use
- ◆ Assisting other U.A. Whitaker College of Engineering coordinators with day to day task

### Gibson Services, Inc. September 2018 – May 2019

- ◆ Testing, adjusting and balancing (TAB) of HVAC systems
- ◆ Calibrated and set up the air handling and hydronic systems for everyday operation, from basic furnaces to large complex air handling systems
- ◆ Troubleshoot for problems and solutions in air handling and hydronic system deficiencies
- ◆ Collaborated with building owners, project engineers, and control contractors to help solve problem situations such as room pressurizations, temperature disparities, noise associated with air flow
- ◆ Worked with Direct Digital Controls (DDC)

### Elanco (Eli Lilly) July 2012 – September 2018

2014 – 2018 contract with Sycamore Engineering Inc.; 2012 – 2014 contract with SMC Inc.

- ◆ 2012 – 2014: Journeyman fabrication and installation work
- ◆ 2014 – 2018: Site foreman
  - Scheduled 3 – 18 journeymen for multiple plant projects

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- Collaborated with engineers on design, scope, and timeline of projects
- Designed feasibility drawings to meet the required expectations
- Provided solutions for better product flow
- Designed exhaust systems for dust collection
- Organized equipment rentals or purchases, fabrication metals, pre-fabricated items
- Verification of components installed as per design
- ◆ Interpret plans and blueprints for fabrication and installation
- ◆ Testing, adjusting and balancing (TAB) of HVAC systems and checking fume hood air flows and filter integrity
- ◆ Fabrication and installation of process piping, chutes, cyclones, hoppers, and tanks
- ◆ Welding of projects with SMAW, GMAW and GTAW

## **Sheet Metal Workers Local 20 Apprenticeship and Training Trust, Indianapolis**

**Director of Training and Instructor – January 2006 to July 2012**

**Scheduled 155 weeks of apprenticeship instruction with four instructors in four schools throughout Indiana**

- Reviewed curriculum needs and match qualified instructor to course
- Planned curriculum to meet needs of individual apprentices indentured date
- Estimated material list and expenditures for upcoming year
- ◆ Negotiated pricing with suppliers of daily expendables such as metals, welding equipment, residential service materials, and miscellaneous lab materials
- ◆ Attended classes offered by the International Training Institute (ITI) to stay current with industry needs
- ◆ Coordinated with contractors throughout Indiana: research to find appropriate welding certification for projects that require a AWS certified welder
- ◆ Hired journeymen to teach evening classes for journeymen and apprentices for skill improvement
- ◆ Resolved apprentice issues with course schedules due to medical or employer related absences
- ◆ Indiana Plan: State grant funded to teach math, safety and promote opportunities available in the building trades to minorities seeking employment
- ◆ Liaison with Ivy Tech Community College: grade reporting, provide curriculum outline for course credit approval
- ◆ Represented Local 20 at Career Fairs and class presentations
- ◆ Served as building representative to incoming tour groups: provide lecture, tour of facilities, class project
- ◆ International Apprenticeship Contest host school: prepared school classrooms and labs under specifications from ITI within a two month window

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## Instructor – July 2001 to January 2006

- ◆ Testing, adjusting and balancing (TAB) instructor: air and hydronic flow testing. Teaching of equipment, theories and mathematical formulas for the proper HVAC system balancing to achieve a comfortable building space, and energy efficiency
- ◆ AutoCAD: Detail drawings of mechanical HVAC systems and fittings
- ◆ Plans and Specification Reading: Reading and understanding of the Construction Specification Institute, Master format system and shop drawings
- ◆ Math and Calculator Functions: Basic math skills to complex formulas
- ◆ Drafting: Mechanical HVAC systems and fittings
- ◆ OSHA Certified Instructor from 2003 to 2012
- ◆ HVAC layout, fabrication and installation of duct work, electrical and piping connections
- ◆ Welding: Welding concepts and theories for SMAW, FCAW, GMAW and GTAW, Oxy-fuel torch cutting

## Gibson Services, Terre Haute

- ◆ Sheet Metal Worker Apprentice – 1996 – 2001
- ◆ Assisted with training other employees with air and hydronic system balancing

## Rexrode and Hughes Construction, Terre Haute

### Owner/Partner – 1987 to 1996

- ◆ Sales: sought out projects
- ◆ Provided bids for time and material or estimates on complete projects
- ◆ Oversaw design details a construction
- ◆ Managed accounting and payroll

## Accomplishments

- ◆ Lead contributor for International Training Institutes Residential Architectural text book
- ◆ Certified OSHA Construction Instructor
- ◆ American Welding Society (AWS) Certified Welding Inspector 2004 - present
- ◆ American Welding Society member
- ◆ Fire Life Safety Level One Technician – fire damper inspector
- ◆ International Training Institute (ITI) instructor 2003 – industry developed calculator, math conversion of polar coordinates to Cartesian coordinate system

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- ◆ 2000 and 2001 - Sheet Metal Workers Local 20's local, and regional apprentice contest winner. Competed at the national apprenticeship contest.

## Additional Coursework

- ◆ Welding I, Welding II, Advanced Welding Technologies, Sheet Metal Welding, Certified Welding, Welding Supervisor
- ◆ OSHA 500, OSHA 502
- ◆ Testing and Evaluation
- ◆ Computer Aided Drafting
- ◆ Drafting and Sketching I
- ◆ Hoisting and Rigging
- ◆ Reading Plans and Specifications
- ◆ Presentation Skills
- ◆ Instructional Management
- ◆ Cooperative Learning