Victoria Baker

Mechanical Engineer, EIT | HVAC | Plumbing Systems

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# SUMMARY

q [**linfiedin.com**](https://linkedin.com/)

9 **Orlando, FL**

# KEY ACHIEVEMENTS

Enthusiastic Mechanical Engineer with 3 years of experience in HVAC and plumbing systems design. Skilled in REVIT/BIM, energy models, and construction administration. Achieved a 20% cost reduction in HVAC designs. Eager to contribute to sustainable projects with a leading engineering team.

# EXPERIENCE

## Mechanical Engineer

### AECOM

03/2021 - Present Orlando, FL

* Developed HVAC and plumbing system designs for commercial and industrial facilities, resulting in a 20% cost reduction.
* Performed HVAC load calculations, energy models, and life cycle cost analysis for over 15 projects.
* Reviewed and edited construction specifications using MasterSpec, ensuring compliance with codes and standards.
* Participated in construction administration by responding to RFIs, reviewing shop drawings, and managing construction submittals.
* Conducted construction site field observations, preparing punch lists and ensuring project timelines were met.

### 9 Cost Reduction in HVAC Designs

Achieved a 20% cost reduction through

optimized HVAC system designs and equipment selection.

### Energy Efficiency Improvements

Enhanced energy efficiency by 15% through

innovative mechanical system designs and energy modeling.

### Ø Successful Project Management

Led the mechanical design for a $10M water

treatment plant expansion, ensuring project completion on time and within budget.

### 0 Technical Documentation

Developed comprehensive construction

documents and specifications, resulting in improved project accuracy and quality.

* Collaborated with a multidisciplinary team to design mechanical systems for a

$10M water treatment plant expansion.

## Mechanical Design Engineer

### Stantec

06/2018 - 02/2021 Tampa, FL

* Supported the design and development of mechanical systems for new and existing facilities, enhancing energy efficiency.
* Sized equipment and developed layouts for HVAC (airside and hydronic) systems in compliance with ASHRAE standards.

# SKILLS

**HVAC Load Calculations Energy Models**

**AutoCAD REVIT/BIM**

**Construction Administration Mechanical System Design**

* Reviewed construction documents and specifications, contributing to project

quality and accuracy.

* Conducted site visits and field observations, providing detailed reports and

punch lists for project improvements.

* Assisted in the coordination of mechanical designs with architectural and structural teams, ensuring seamless integration.

## Junior Mechanical Engineer

### Jacobs Engineering

01/2017 - 05/2018 Orlando, FL

* Performed HVAC load calculations and ventilation assessments for commercial buildings, improving indoor air quality.
* Developed mechanical system layouts and schematics using AutoCAD, adhering to project specifications.
* Participated in the review of shop drawings and submittals, ensuring adherence to design intent and standards.
* Assisted senior engineers in the preparation of construction documents, enhancing technical skills and knowledge.

# EDUCATION

## Master of Science in Mechanical Engineering

### University of Florida

01/2015 - 01/2017 Gainesville, FL

## Bachelor of Science in Mechanical Engineering

### University of Central Florida

01/2011 - 01/2015 Orlando, FL

# CERTIFICATION

### Advanced HVAC Systems Design

ASHRAE

### Building Automation Systems

Building Performance Institute

# PASSIONS

### Ø Sustainable Engineering

Dedicated to developing eco-friendly

mechanical systems that promote energy efficiency and sustainability.

Ø **Cycling**

Enjoy exploring new trails and staying active

through long-distance cycling.