Alejandro Moody

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SUMMARY

Mechanical HVAC Design Engineer with **three years of experience** developing commercial and institutional building systems. Creates HVAC layouts, Revit models, **engineering calculations**, schematics, **construction drawings**, and project documentation that support sound design decisions. Coordinates requirements with architects, project managers, contractors, clients, and multidisciplinary engineering teams. Performs site evaluations, documents field conditions, reviews contractor submittals, and supports construction activities through clear technical communication. Applies **HVAC design principles**, building systems knowledge, applicable codes, and construction standards across practical project workflows. Work reflects steady technical growth, careful coordination, and respect for field realities. Prepared to contribute reliable design judgment, responsive collaboration, and organized project support within a growing mechanical engineering practice.

EXPERIENCE

HVAC Design Engineer, Commercial Building Systems

July 2024 - Present

Northstar Mechanical Design Group

Atlanta, GA

Supports **commercial building projects** through HVAC design, Revit modeling, engineering calculations, construction documentation, site evaluation, and contractor coordination. Works with architects, project managers, contractors, and multidisciplinary engineering teams to move practical mechanical solutions from design review through construction support. Applies building codes and HVAC standards while documenting field conditions and responding to project requirements.

- Developed commercial **HVAC layouts** and **Revit models**, giving project teams coordinated design documentation.
- Prepared engineering calculations and schematics, supporting accurate reviews across **multidisciplinary project teams**.
- Updated construction drawings with architects and engineers, keeping design decisions aligned with project requirements.
- Documented existing **field conditions** during site observations, helping teams resolve practical project questions.
- Reviewed **contractor submittals** during construction, providing clear technical comments for informed project decisions.
- Applied building codes and HVAC standards, strengthening design quality across commercial building deliverables.

PROJECTS

Institutional HVAC Documentation Initiative 2024

Improved coordination between HVAC design documentation and field observations for institutional building work. Clear drawings, calculations, and site records help teams make responsible decisions that protect occupant comfort, construction quality, and long term building performance.

LEADERSHIP & AWARDS

- Engineer in Training certification earned in 2024, recognizing commitment to disciplined mechanical engineering practice.
- Trusted contributor for clear HVAC documentation, field observations, and technical coordination across active design projects.
- Recognized by project teams for practical communication during reviews, site observations, and construction support.

EDUCATION

Bachelor of Science in Mechanical Engineering

2023

Georgia Institute of Technology GPA: 4.0

Atlanta, GA

Coursework: *Thermodynamics, Fluid Mechanics, Heat Transfer, HVAC Systems*

CERTIFICATIONS

- Engineer in Training 2024
- LEED Green Associate 2024

TECHNICAL SKILLS

- **HVAC Design:** HVAC layouts, HVAC analysis, building systems
- **Revit Modeling:** Revit, mechanical modeling, coordinated models
- **Engineering Documents:** Construction drawings, schematics, project documentation
- **Engineering Calculations:** HVAC calculations, load analysis, design analysis
- **Building Codes:** Applicable codes, HVAC standards, code review
- **Construction Support:** Site observations, field conditions, construction activities
- **Contractor Coordination:** Contractor submittals, technical comments, submittal review
- **Design Coordination:** Architect coordination, project management, multidisciplinary teams
- **Mechanical Engineering:** Mechanical engineering, building systems, HVAC principles

- **Communication Tools:** Technical communication, design reviews, project updates

SKILLS

- HVAC Design
- Revit
- Building Systems
- Engineering Calculations
- Construction Documentation
- Site Evaluations
- HVAC Analysis
- Construction Support
- Submittal Review
- Building Codes
- Technical Communication
- Project Coordination
- Field Conditions
- Mechanical Engineering
- Engineering Drawings

PROFESSIONAL AFFILIATIONS

- National Society of Professional Engineers, member focused on continuing mechanical engineering development.
- American Society of Heating, Refrigerating and Air Conditioning Engineers, participant in HVAC professional learning.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST