

Kaden Mosley

Associate HVAC Engineer

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SUMMARY

Associate HVAC Engineer with three years of full time mechanical engineering experience supporting industrial and government oriented facility projects from design development through field execution. Applies HVAC design principles, discipline codes, standards, **engineering calculations**, specifications, and project criteria across **routine assignments**. Reviews **vendor equipment documentation**, resolves technical discrepancies, and develops cost conscious solutions based on performance, material availability, cost, and constructability. Supports **equipment procurement**, permitting, subcontracting, field verification, and installation questions. Engineer in Training with practical field judgment and experience coordinating clients, vendors, contractors, project leads, and multidisciplinary teams. Organizes concurrent assignments through clear priorities, accurate documentation, and dependable deadline management. U.S. Citizen prepared to contribute sound HVAC design support and practical project coordination in a demanding engineering environment.

EXPERIENCE

Associate Mechanical Engineer, HVAC Design

Bayou Technical Projects 📅 June 2025 - Present 📍 Houston, TX

Supports routine HVAC design assignments for secure and industrial facilities under discipline leadership. Coordinates equipment documentation, procurement support, permitting records, subcontractor packages, **field verification**, and technical resolution across concurrent project deadlines.

- Applied **HVAC** codes and **standards** to routine facility design assignments under discipline lead guidance
- Reviewed vendor equipment documents against project criteria and resolved **discrepancies** with suppliers
- Prepared cost conscious equipment recommendations using performance, availability, material cost, and constructability
- Supported procurement, **permitting** documentation, and subcontractor technical packages for facility projects
- Verified field conditions and answered installation questions during active construction coordination
- Organized concurrent HVAC assignments through **priorities**, accurate records, and deadline focused execution

Mechanical Engineer I, Facility Systems

Lone Star Process Facilities 📅 June 2023 - May 2025 📍 Pasadena, TX

Supported HVAC and building mechanical design for process support facilities through defined assignments. Prepared equipment documentation, technical comparisons, procurement records, and coordination materials while checking field conditions and cross discipline interfaces.

- Supported **HVAC** and building mechanical design for process support facility assignments
- Prepared equipment data sheets and technical comparisons from requirements and vendor information
- Checked vendor submittals and cross discipline documents for interface conflicts
- Proposed practical resolutions for equipment coordination and documentation **discrepancies**
- Completed site walks that verified access, routing constraints, and **constructability** conditions
- Organized procurement records, technical bid information, and **engineering** correspondence
- Managed assignments with spreadsheets, **email**, **word processing**, and presentation software

PROJECTS

Industrial Facility HVAC Coordination 📅 2025

Supported design coordination for industrial facility HVAC assignments, including vendor document review, field verification, constructability checks, and resolution of installation questions.

Process Support Mechanical Design 📅 2024

Prepared equipment data sheets, technical comparisons, procurement records, and cross discipline coordination materials for process support facility design.

LEADERSHIP & AWARDS

- Engineer in Training achievement, Texas, 2024
- Field coordination recognition for accurate installation support and dependable technical follow through
- Project team recognition for organized procurement records and clear vendor communication

EDUCATION

Bachelor's Degree in Mechanical Engineering

Texas A&M University 🎓 GPA: 3.5 📅 2023 📍 College Station, TX

Coursework: Thermodynamics, Fluid Mechanics, Heat Transfer, Engineering Design

CERTIFICATIONS

- Engineer in Training, Texas 📅 2024
- Microsoft Office Specialist 📅 2024

TECHNICAL SKILLS

- **HVAC Engineering:** HVAC design, equipment selection, mechanical systems
- **Engineering Standards:** Discipline codes, industry standards, engineering procedures
- **Equipment Documentation:** Vendor submittals, equipment data sheets, technical comparisons
- **Procurement Support:** Equipment procurement, material availability, technical bid information
- **Project Compliance:** Project requirements, permitting documentation, subcontractor packages
- **Field Engineering:** Field verification, site walks, installation questions
- **Cost Evaluation:** Material cost, cost conscious design, commercial availability
- **Office Software:** Word processing, email, spreadsheets
- **Presentation Tools:** Electronic presentations, technical correspondence, project records
- **Mechanical Design:** Building mechanical design, HVAC calculations, technical specifications
- **Coordination Methods:** Discrepancy resolution, interface reviews, multidisciplinary coordination

SKILLS

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|----------------------------|---------------------------|----------------------------|---------------------------|
| • HVAC design | • Permitting support | • Technical specifications | • Codes and standards |
| • Engineering calculations | • Subcontracting support | • Cost analysis | • Mechanical design |
| • Vendor review | • Field verification | • Discrepancy resolution | • Technical communication |
| • Equipment procurement | • Constructability review | • Project prioritization | |

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigerating and Air Conditioning Engineers participant
- Texas engineering professional development community participant

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST