

Alejandro Moody

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SUMMARY

Vice President and licensed **Professional Engineer** with 18 years of **HVAC design experience** leading mechanical and plumbing consulting work for complex building programs. Combines hands on technical authority in HVAC systems, mechanical codes, LEED requirements, CAD, Revit, and quality control with **executive leadership** across staffing, workload planning, performance management, mentoring, **client relationships**, and project governance. Guides multidisciplinary teams through design decisions, constructability reviews, risk decisions, and delivery commitments while protecting schedule, budget, and technical quality. Builds trusted client relationships through clear communication, proposal presentations, pursuit strategy, and commercial negotiations. Leads engineering standards, manager coaching, production reviews, and organizational priorities with practical judgment. Brings a collaborative approach that connects technical quality, staff development, business growth, and dependable project delivery.

EXPERIENCE

Vice President, Mechanical Engineering

January 2021 - Present

Crescent MEP Advisors

Naperville, IL

Lead technical delivery, office operations, staff development, client relationships, and **business development** for concurrent HVAC and plumbing programs. Set priorities, guide managers, review **project performance**, and protect schedule, budget, quality, and long term client trust.

- Directed **HVAC** and plumbing delivery through milestone reviews, balancing scope, schedule, budget, and quality.
- Applied mechanical codes, **LEED requirements**, CAD, and Revit coordination during senior design reviews.
- Planned staffing and workloads, then created **development opportunities** through practical mentoring and performance discussions.
- Strengthened client relationships through risk reviews, proposal presentations, negotiations, and clear project governance.
- Improved quality control for calculations, equipment selection, coordinated documents, and construction phase decisions.
- Aligned local priorities with organizational goals through **performance** debriefs and production planning.

Mechanical Engineering Director

June 2016 - December 2020

Prairie Axis Engineering

Schaumburg, IL

Directed **mechanical engineering** delivery and office leadership across HVAC and plumbing programs. Managed technical reviews, workload planning, mentoring, client communication, proposals, negotiations, and quality procedures while connecting project performance with broader business goals.

- Led concurrent HVAC and plumbing programs through coordinated design reviews and delivery commitments.
- Used **codes**, LEED criteria, CAD, and Revit coordination to resolve issues before milestones.
- Matched **workloads** with staff capability, giving engineers clearer development paths and practical coaching.
- Built client confidence through milestone **communication**, risk decisions, and performance debriefs.
- Partnered with **business development** staff on pursuit strategy, proposal presentations, and negotiations.
- Reviewed calculations, equipment selections, documents, and construction decisions through **quality control procedures**.

Senior Mechanical Project Manager

July 2012 - May 2016

Lakefront Building Systems

Chicago, IL

Managed complex mechanical and plumbing projects from design review through construction phase decisions. Coordinated technical teams, client communication, **staffing**, proposals, budgets, schedules, and quality controls across varied building programs.

- Managed HVAC and plumbing projects with focused control of scope, **schedule**, **budget**, and quality.
- Coordinated **CAD** and **Revit** design reviews against applicable codes and LEED requirements.
- Mentored project staff and balanced assignments against capability, workload, and delivery priorities.
- Guided clients through milestone reviews, risk decisions, governance meetings, and performance debriefs.
- Supported proposals, presentations, negotiations, and commercial discussions with **business development** partners.
- Checked calculations, equipment selections, coordinated documents, and construction phase responses for quality.

Mechanical Engineer

June 2008 - June 2012

Midwest Integrated Design

Evanston, IL

Delivered **mechanical engineering** support across HVAC and plumbing programs while contributing to design reviews, client communication, staffing coordination, proposals, and quality control. Built practical technical judgment through coordinated project delivery and construction phase decisions.

- Delivered **HVAC** and plumbing designs within agreed scope, schedule, budget, and **quality expectations**.
- Reviewed coordinated documents using CAD, Revit, mechanical codes, and **LEED requirements**.
- Supported workload planning and mentoring activities that helped staff meet project priorities.
- Prepared client updates, milestone materials, risk items, and performance debrief inputs.

- Contributed to proposal presentations, negotiations, and pursuit strategy with **business development** colleagues.
- Checked calculations, equipment selections, coordinated documents, and construction phase decisions for accuracy.

Mechanical Design Engineer

June 2005 - May 2008

Great Lakes Engineering Studio

Aurora, IL

Supported **mechanical design** production for HVAC and plumbing projects while developing capability in CAD, Revit coordination, codes, LEED requirements, quality review, client communication, and construction phase support.

- Supported HVAC and **plumbing design** delivery within project scope, schedule, budget, and quality goals.
- Used CAD and Revit coordination during design reviews against codes and **LEED requirements**.
- Helped organize workloads and shared technical knowledge during team mentoring activities.
- Prepared client communication materials for milestones, risks, and **project performance** discussions.
- Supported proposal presentations, negotiations, and pursuit work with **business development** partners.
- Reviewed calculations, equipment selections, coordinated documents, and construction phase responses with senior guidance.

PROJECTS

Regional HVAC and Plumbing Quality Program 📅 2024

Connected technical leaders, project teams, and clients through a shared quality review approach. Standardized reviews for calculations, equipment selections, coordinated documents, codes, LEED requirements, schedule, budget, and construction decisions.

Mechanical Office Development Framework 📅 2021

Built stronger connections across managers, designers, and business development partners through workload planning, mentoring, performance reviews, proposal presentations, and practical development opportunities.

LEADERSHIP & AWARDS

- Professional Engineer registration recognized for sustained mechanical design leadership in Illinois.
- LEED Accredited Professional credential recognized for informed sustainable building design guidance.
- Advanced to Vice President after progressive growth across mechanical engineering, project management, and office leadership.

EDUCATION

Bachelor's Degree in Mechanical Engineering

2005

Illinois Institute of Technology GPA: 0

Chicago, IL

***Coursework:** Thermodynamics, Fluid Mechanics, Heat Transfer, Mechanical Systems Design*

CERTIFICATIONS

- Professional Engineer, Illinois 📅 2011
- LEED Accredited Professional 📅 2013

TECHNICAL SKILLS

- **HVAC Design:** Heating systems, ventilation systems, air conditioning systems
- **Plumbing Design:** Domestic water, sanitary systems, stormwater systems
- **Design Software:** CAD, Revit, coordinated documents
- **Building Standards:** Mechanical codes, plumbing codes, LEED
- **Engineering Review:** Technical review, constructability review, design review
- **Project Controls:** Schedules, budgets, milestone reviews
- **Quality Management:** Quality control, calculations, equipment selection
- **Office Leadership:** Staffing, workload planning, performance management
- **Client Development:** Client relationships, proposal presentations, negotiations
- **Team Development:** Mentoring, coaching, development opportunities
- **Business Development:** Pursuit strategy, proposals, commercial negotiations
- **Project Governance:** Risk decisions, performance debriefs, project governance

SKILLS

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|--------------------|---------|-------------------|---------------------|
| • HVAC design | • CAD | • Mentoring | • Proposal strategy |
| • Plumbing systems | • Revit | • Project budgets | • Negotiations |

- Mechanical codes
- Quality control
- Project schedules
- Technical review
- LEED requirements
- Staffing
- Client relationships

PROFESSIONAL AFFILIATIONS

- Professional Engineer community, Illinois registration.
- LEED professional community, sustainable building design.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST