

Luka Berg

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SUMMARY

Dynamic Mechanical Engineer with over 8 years of experience leading commissioning management for mission-critical facilities, primarily data centers. Proven success guiding multi-disciplinary teams ensures seamless execution and compliance during the entire commissioning lifecycle. Expert in HVAC systems, BMS integration, and functional testing, delivering reliable projects on schedule without compromising quality or safety standards. Known for developing effective commissioning plans and checklists, conducting rigorous site inspections, and mentoring new team members to promote a culture of excellence and safety.

EXPERIENCE

Commissioning Manager June 2021 - Present
Tech Solutions, Inc. San Diego, CA

- Lead onsite commissioning efforts for complex data center projects, focusing on mechanical systems compliance and performance verification. Oversee coordination between mechanical, electrical, and plumbing teams to assure project specifications are met, ensuring optimal operation post-handover.
- Directed mechanical commissioning activities across multiple high-stakes data center projects, achieving on-target completions while upholding performance and safety expectations.
 - Orchestrated comprehensive commissioning plans tailored for each installation, resulting in streamlined workflows and enhanced communication among engineers and contractors.
 - Engaged in regular integrity checks and functional tests, meticulously captured detailed records, facilitating transparency for stakeholders.
 - Collaborated alongside design teams, rigorously studying Basis of Design documents and identifying essential modifications for commissioning mandates prior to execution.
 - Mentored junior engineers, fostering skill development and nurturing an understanding of best practices to uphold safety protocols throughout operations.

Mechanical Engineer January 2018 - May 2021
BuildRight Engineering Los Angeles, CA

- Actively supported commissioning processes across both commercial and industrial sectors, emphasizing stringent adherence to regulatory standards governing HVAC applications.
- Played a pivotal role in commissioning HVAC systems, ensuring compliance with regulations while improving overall energy efficiency.
 - Contributed actively to planning and scheduling commissioning activities, allowing alignment with prevailing construction milestones to minimize setbacks.
 - Performed rigorous inspection and testing on installed equipment, documenting results on time and coordinating promptly with contractors to ensure timely resolutions.
 - Resolved technical challenges through collaborative discussions with project teams, significantly reducing delays in commissioning phases.
 - Ensured that all installations were subjected to thorough safety audits and adherence checks, reinforcing a commitment to workplace health regulation.

Junior Mechanical Engineer August 2015 - December 2017
GreenTech Innovations San Francisco, CA

- Assisted in the initiation and deployment of sustainable HVAC solutions, highlighting examination of system performance metrics and green objectives on commercial projects.
- Aided in the design process while contributing efforts toward commissioning innovative, energy-efficient HVAC technologies dedicated to project sustainability.
 - Conducted field testing, producing analytical evaluations that shaped decision-making regarding system adjustments.
 - Supported project managers with precision-oriented preparation of documentation and client turnover packages, following industry-standard formats.
 - Activated strong relationships with various contractors and vendors, permitting better communication channels and reduced commissioning delays.
 - Explored evolving trends in technology and regulations through continuous education opportunities to stay ahead in mechanical engineering.

LEADERSHIP & AWARDS

- ASHRAE BCxP Certification, 2026
- NEBB Certified Commissioning Professional, 2026

EDUCATION

Bachelor's Degree in Mechanical Engineering
University of California, Berkeley GPA: 3.5
Coursework: Thermodynamics, Fluid Mechanics, HVAC Systems, Mechanical Design

2015
Berkeley, CA

CERTIFICATIONS

- ASHRAE BCxP Certification 2026
- NEBB Certified Commissioning Professional 2026

TECHNICAL SKILLS

- HVAC Systems Tools:** AutoCAD, Revit, Trane Trace 700
- Testing Equipment:** Manometers, Flow Meters, Pressure Gauges
- Project Management Tools:** Microsoft Project, Primavera P6, Trello
- Document Control Software:** Bluebeam, SharePoint, Adobe Acrobat
- Collaboration Platforms:** Slack, Microsoft Teams, Zoom
- Codes and Standards:** ASHRAE, NEC, NFPA
- Site Inspection Tools:** Thermal Imaging Cameras, Vibration Analyzers, Safety Harnesses
- Energy Management Software:** EnergyPlus, OASYS, eQuest
- BMS Tools:** Johnson Controls, Siemens, Schneider Electric
- Data Analysis Tools:** MATLAB, Microsoft Excel, Tableau

SKILLS

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|-------------------------------------|-------------------------|---------------------------|---------------------------|
| • Mechanical Systems Commissioning | • Functional Testing | • Chilled Water Plants | • Contractor Coordination |
| • Project Management | • Team Leadership | • Fire Protection Systems | • Quality Assurance |
| • HVAC Design | • Safety Compliance | • Technical Reporting | • Systems Integration |
| • Building Management Systems (BMS) | • Documentation Control | • Performance Assurance | • Regulatory Standards |

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- National Institute of Building Sciences

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST