

Nathan Haley



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Engineer in Training

EIT#: 39655

Mechanical Plans Examiner

Cert#: 9665472

LEED® Green Associate™

GBCI#: 0011325725

Autodesk Certified
Professional

REF#: 27296301

Mission Statement

I would love to pursue a role at a company where I can work on multi-disciplinary engineering challenges and meet amazing people. I am passionate about design, teamwork, and learning new things. I am a customer focused individual with keen attention to detail who enjoys being creative, troubleshooting, and making the world a better place.

Work & Project Experience

PSR Mechanical | Seattle, WA

Sep 2021-Aug 2024

Project Executive/Project Engineer

- **Performed** sales, estimating, and early stage management of various mechanical/HVAC TI and equipment replacement projects
- **Provided** sales, estimating, and full life cycle management and engineering of local and WA state mandated energy improvement ordinance projects
- **Developed** knowledge base regarding current and upcoming local and WA state mandated energy improvement ordinances and construction codes
- **Creation** of mechanical permit sets and permit applications for various TI projects
- **Calculation** of thermal and ventilation loads

Holmberg Mechanical | Bellevue, WA

Sep 2020-Sep 2021

Project Engineer

- **Reviewed** DIV 22 and 23 submittals and specs for equipment and commodities
- **Selected** main components for high pressure hydronic system (+300psi)
- **Issued** and managed RFIs for mechanical and plumbing scopes
- **Collaborated** with seismic, thermal exp., controls, and detailing subcontractors
- **Assisted** site superintendents with day-to-day and onsite QA/QC inspection tasks
- **Assisted** engineering and detailing with assorted tasks

Rushing Company | Seattle, WA

April 2019-Mar 2020

Mechanical Project Engineer

- **Designed** and modeled ventilation, thermal comfort, pressurization, and exhaust systems in Revit and system schematics in AutoCAD
- **Selected** fans, pumps, VRF FCUs, fire smoke dampers, louvers, and GRDs using vendor selection software and product catalogs
- **Calculated** thermal loads for dwelling, amenity, and kitchen spaces for high/mid-rise hotel/luxury apartment projects
- **Designed** Detailed Event Matrix for stairwell/hoistway pressurization operation during a fire/smoke event
- **Learned** about refrigeration piping considerations for VRF heat pump systems
- **Learned** about rational analysis for smoke control systems from NFPA 92
- **Learned** about 2015 Seattle Mechanical, Building, and Energy Codes

Education & Training

AEE Certified Energy Manager (CEM)

Mar 2022 - Aug 2024

ICC M3 2018 Mechanical Plans Examiner

Apr 2021 - Apr 2024

LEED® Green Associate™

Nov 2019 - Nov 2021

Udemy.com Complete Python Bootcamp w/ Jose Portilla

Mar 2019 - Apr 2019

- 12+ hrs of online instruction and 40+ hrs of hands on coding
- Notable projects include Tic-Tac-Toe, Blackjack, and a basic music player

Washington State Engineer in Training

Dec 2018-Present

Autodesk Certified Professional in Revit MEP: Mechanical

Mar 2017-Present

B.S., Mechanical Engineering w/ Materials Science Minor

Aug 2012- May 2016

- Washington State University, 3.80 GPA, Magna Cum Laude
- Mentor in Mechanical and Materials Engineering Mentorship Program

Programming Skills

C#, Unity, Python, HTML, CSS, JavaScript, SQLite, Email.JS, Render Web Services, MATLAB, Visual Studio, Github, Jira, Excel VBA, Dynamo for Revit, Web Design, Application Design

See my personal website and Github profile for programming project examples