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**