Ryan **Haseman** P.E.

Professional Engineer · WA License # 21031195

(360) 747-7029 | rhaseman@pacificflowengineering.com | www.pacificflowengineering.com | hasemar | RyanHaseman

Experience

Washington Water Service Company

Lacey, WA

Associate Engineer, Engineering Supervisor, Project Engineer

Jan. 2018 - Present

- Department Improvement and Leadership
  - Creates and implements new engineering tools and processes such as design calculators, design templates, and project management tools
  - Participates as a trainer for new project engineers and technicians
  - Senior reviewer for engineering plans and designs for internal, developer-funded and subcontracted project engineers
- Supervisor Responsibilities
  - Managed two direct reports in charge of Geographic Information Systems (GIS), Enterprise Asset Management (EAM) and other operational support tasks
  - As project manager, maintained a portfolio of 15 to 20 capital projects
  - Interview panel participant for engineering technician and several project engineer interviews
  - Elected to the Future Leaders of Water class of 2024 by Board of Directors
  - Led monthly company-wide GIS user training
- Design and Construction Management
  - In charge of the design and installation of a large portfolio of capital projects involving treatment, pumping assets, groundwater and surface water source, storage and distribution piping

    Highlights
    - Successfully designed and completed installation of arsenic blending project involving 1400ft transmission main installation and variable-flow blending station on a hydro-pneumatic zone. Coordinated multiple subcontractors and in-house construction staff throughout the life of the project.
    - Successful design and completion of a major booster station rebuild. Project involved DOH approval, upgraded commercial power to the site, structural, electrical, mechanical and underground site work. Once completed, fire-flow capacity for the system was increased to meet county fire-flow performance standards.
  - Regularly works with state and local regulators on project approval and water system compliance issues
  - Responsible for maintaining and updating all hydraulic models for WWS water systems and trained new project engineer on using Infowater software
  - Produces cost estimates, asset life-cycle analyses, in-depth alternatives analyses, and other budget prioritization and planning tasks
  - Manages bidding events for capital projects with multi-disciplinary tasks (underground, mechanical, electrical)
  - Regularly conducts formal design review of engineering plans for internal, developer-funded and subcontracted project engineers
- Operations Support
  - Guides and advises GIS staff on technical processes, data structures and troubleshooting
  - Produces and updates GIS data, creates applications and maps for analysis, reporting, and company-wide processes
  - Supports operations on technical issues such as hydraulic calculations, chemical injection rates and pump capacities
- Other Team Contributions
  - New business and water availability request process team leader from 2020-2022 (continues to advise in this process as senior project engineer)
  - Created a new budgeting tool for capital planning that is used by all WWS project managers
  - Frequently directs technicians in their daily work
  - Mentors other project engineer, technicians and intern to foster good design intuition and problem solving skills
  - Attended NARUC Rate School in spring of 2023 and was a major contributor to team discussions and mock rate-case deliverables
  - Interview panel participant for Engineering Technician position in 2021, will be a panel participant for new technician position in 2023
  - Safety Committee chairperson in 2022, Safety Committee member 2021-2023
  - References and applies Labor and Industries, and OSHA regulations to ensure safety of design and implementation of all projects and practices
  - CIRM member 2023

Saint Martins University

Lacey, WA

Adjunct Professor

Aug. 2017 - Dec. 2017

I was an adjunct professor in the mechanical engineering department at SMU during the fall semester of 2017. I taught three sections of a laboratory class called Mechatronics and Measurements. The class was mostly ME juniors and was focused on the application of theory based lecture courses from within the ME program. I was allowed to create my own syllabus and course content with approval from the department head.

- Provided hands on experience working with various types of instrumentation and electrical components
- Designed assignments to improve upon and bolster students technical writing skills
- Provided guidance and direction to students to help them achieve their goals inside and outside of class

QED

Olympia, WA

Partner (self-employed)

Feb. 2011 - Feb. 2018

QED was a small process design and drafting company consisting of myself and a professional engineer. QED specialized in food processing and other processes subject to regulated environments. My responsibilities were to realize the conceptual designs of my partner, through 3D modeling, CAD, procurement and installation. In the later years I operated autonomously: procuring clients, conducting regulatory audits, and other small projects for my established client base.

- Successfully maintained a satisfied customer base while going to engineering school
- Designed and built multiple processes for the agricultural and food processing industry
- Produced quality fabrication drawings, P& ID's, layout drawings, and regulatory audit documentation
- Extensive trusted-vendor network with a large skill base
- Consulted for customers interested in product development, and produced quality prototypes

Nutriom, LLC

Lacey, WA

Project Coordinator / Designer

Oct. 2008 - Jun. 2012

Nutriom is a food processing company, formally based out of Lacey but since moved to Iowa. They produced a uniquely processed powdered egg that involved pasteurization, drying, and packaging. My responsibilities included project management and procurement for a major capital improvement project within their drying process. I participated in the design, maintenance and troubleshooting of other processes throughout the plant.

- Coordinated a >$1MM capital project
- Communicated all technical drawings to sub-contractors, machinists and fabricators.
- In charge of procurement for all project equipment and materials
- Assisted in the design of proprietary drying system, piping, mechanical and control systems
- Assisted in production strategies and marketing ideas

Nether Industries

Enumclaw, WA

Foreman

Jun. 2001 - Oct. 2008

Nether Industries is a full service processing supplier with a fabrication shop, and field installation capabilities. I started with Nether as a part-time laborer and worked my way up to welder/fabricator, pipe-fitter and job foreman. As a foreman I regularly lead field crews of 3 or more to perform plant retro-fit projects, new plant builds and equipment installation.

- Job and project lead
- Job Coordination (onsite work scheduling/distribution, parts staging, field design)
- Technical support for customers, process troubleshooting, interpretation of technical drawings
- Technical labor: sanitary TIG welding, pipe fitting and fabrication

Skills

Technical

- Specialized in small water system design and treatment systems
  - Regulatory knowledge: WAC for community water systems, WADOH guidelines, UTC, L&I, OSHA, AWWA, and local jurisdiction compliance
  - First-hand experience designing and managing the construction of: groundwater wells, pumping facilities, water mains, treatment systems (arsenic removal, Fe/Mn removal, disinfection and corrosion control)
  - UTC and rate-making knowledge
- Extensive knowledge of other common industry processes, manufacturing, and fabrication techniques such as heat transfer, machining, metalwork, and additive manufacturing
- Knowledgeable and experienced with industrial controls and automation
  - Experience with control systems using SCADA architecture and distributed I/O, remote terminal units, Modbus protocol, MQTT protocol, PID process control
  - Experience with motion control systems such as Fanuc robotics, G-Code and CNC motion, pneumatic systems, Galil motion

Leadership

- Comfortable in a leadership role
  - Experience leading teams with diverse backgrounds
  - High emotional intelligence, can navigate difficult conversations
  - Adapts and manages changing conditions such as staffing changes and shifting priorities
  - Provides mentoring and leadership
  - Long-term vision approach to problem solving and process design
- Excellent written and oral communication
  - Routinely produces professional engineering reports for management and regulatory approval
  - Highly capable of producing professional and engaging presentations
  - Skilled at communicating complicated material in an clear and digestible manner to a wide variety of audiences

Software

InfoWater Pro, ESRI ArcGIS 10.X and Pro, AGOL, PowerPlan, Solidworks, HSM(CAM), Python, MatLab, Ansys FEA, AutoCAD, Inventor, Excel, Powerpoint, C/C++(via Arduino), LaTeX

Education

St. Martin's University (Hal and Inge Marcus School of Engineering) *Lacey, WA*

B.S.M.E. in Mechanical Engineering (*summa cum laude*) *Aug. 2015 - May 2017*

- Received President's scholarship award
- Dean's list Fall 2015 through Spring 2017
- Hal and Inge Marcus School of Engineering: Mechanical Engineer of the Year
- Senior Project leader for the development of WDFW research equipment
- ASME club member (CNC project lead)
- Math and physics tutor (at South Puget Sound Community College)

Western Washington University (School of Business and Economics) *Bellingham, WA*

B.A. in Finance *Sept. 2000 - Dec. 2004*