

Carl Garrison, P.E.
Principal Engineer
Garrison Engineering

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Education

Bachelor of Science, Mechanical Engineering
California State University, Chico, CA.

Professional Registrations

Mechanical Engineer, States of Washington,
Oregon, Idaho, California, Arizona, Nevada.

Affiliations

AWWA
Sedro-Woolley Rotary, 1996-Present
Burlington Toastmasters, 1996-Present
ASHRAE, 1994-Present

Experience

- Group A and Group B Drinking Water Systems
- Water Treatment Design
- Pumps, Valves, and Piping
- Water System Controls
- Project Management and Design Engineering
- Industrial Waste Water Treatment
- Corrosion Engineering
- AutoCAD
- Boilers, and Boiler Water Treatment
- HVAC, Plumbing & Fire Protection
- Public Speaking, Teaching and Coaching

Garrison Engineering Corporation Burlington, WA. Carl is the owner of Garrison Engineering and is responsible for the company. Staff levels have varied between 4 and 9 employees. Carl is one of the only licensed mechanical engineers with a private practice north of Everett, WA. Because of this distinction, Carl has had the opportunity for a very diverse work load.

Privately Owned Public Water Systems

Carl is the lead design engineer for all work by Garrison Engineering. Areas of expertise include hydraulic analysis, water system layout, pumping systems, valve sizing, specialty valves and appurtenances, many types of water treatment and filtration. In addition to the technical aspects of water systems, Carl has prepared several water system reports for new and expanding Group A and Group B systems. The following is a partial list of water systems Carl has worked on since 1994.

- 400+ Residential, two party, Group B, and Group A treatment systems to remove arsenic, fluoride, and/or barium

Water System Experience

- Hungerford and Terry Co. Multiple municipal projects.
- Juniper Beach Water District, Camano, Is, WA
- Lake Meridian Estates Group A Water System, Kent, WA
- Glacier Springs Water System, Group A-TNC, Whatcom County, WA - multiple projects
- Summerland Group A Water System, Camano Is. WA
- Township 29 Group A Water System, Island Co. WA
- Brutus Group A Water System, Island Co. WA
- Seawest Group A Water System, Island Co. WA
- Fisherman Bay Group A Water System, SJ County, WA

HVAC, Plumbing, and Fire Protection

In addition to water system work, Carl has done a variety of HVAC, plumbing and fire protection projects in the pacific NW.

- Chandler's Square senior living, Anacortes, WA
- Hampton Inn and Suites, Burlington, WA
- Condominiums. Various buildings, 4-14 stories.
- Lincoln Theater boiler replacement, Mt. Vernon, WA
- Whatcom County Jail, Bellingham, WA
- City Hall boiler replacement, Anacortes, WA
- Chateau I and II assisted living, Bothell, WA
- Depot Market, City of Bellingham, WA
- Calvary Baptist Church, Bellingham, WA
- City of Sedro-Woolley, Parks office and Evidence Storage buildings.

Industrial Water and Waste Water Engineering

Carl's industrial processing experience includes food processing, pumping systems, wells, solids separation and concentration, evaporation, automatic filtration systems, RO and UF filtration. In addition, Carl has designed and managed projects for oil/water separation, sludge pumping, oil skimming, and skid mounted water treatment plants.

- Safeway Preserve Plant, Merced, CA
- Safeway Beverage Plant, Bellevue, WA
- Safeway Milk Plant, Bellevue, WA
- Safeway Bread Plants, Bellevue, WA & Richmond CA
- Janicki Industries Building #4, Sedro-Woolley, WA
- Pacific Mariner boat fabrication building, LaConner, WA
- Darigold, Issaquah, WA
- Arctic Ice Cream, Seattle, WA
- Vitamilk Dairy, Greenlake, WA
- Tesoro Control Building #1, Anacortes, WA