

Contact
Portland, Oregon, USA
OgbeideH@gmail.com
(541) 645-0138
www.HaakSO.com

Summary
Water resources engineer with broad experience in engineering design, project management, water policy, and carpentry. Unique combination of expertise in hydraulic engineering along with a passion for hands-on work allows for a dynamic and innovative approach to problem solving. Environmentally conscious projects with a long-term view are of particular interest. Core strength is a logical thought process that breaks problems down to their roots to find optimized solutions. Hold a B.Sc. in civil engineering; licensed professional engineer in Oregon and California.

Skills
Construction design drawing – esp. irrigation, wastewater, hydropower
Project management – scope of work, cost estimate, solicitation, schedule
Field work – construction inspection, site assessment, hands-on building
Carpentry – conventional framing and timber structures
CAD drawing – AutoCAD, Civil 3D, Microstation InRoads, ArcGIS, SketchUp
Microsoft Office – Word, Excel, Powerpoint, Project, Access, Teams, Office 360
Strong spatial ability – plan and problem solve in three dimensional space
Applied mathematics – analysis of water cycles, energy systems, building processes
Research and Analysis – learns new technical subjects quickly and in depth
Hydraulic Analysis Tools – familiar with EPANET, HEC-RAS, HEC-HMS
Clear, organized communications – verbal, technical writing, infographics

Background
Citizen of the US and the UK, born September 1984
Raised in Oslo, Norway and Oregon, USA
English and Norwegian written and spoken fluently
Conversant in German and a Bantu language

Interests
Carpentry Data Visualization Industrial Ecology
Disc sports Sustainable Technologies Photography

Work experiences and education on the following page

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Photographs and extended descriptions of my experiences are available at:

www.HaakSO.com

Civil Engineer

Oak Lodge Water Services District
Milwaukie, Oregon

Jul 2018 - present

At this water utility district, I provide 30,000 members of the public with potable water and wastewater engineering services. Primarily I manage large capital projects by scoping out work for public procurement of consultants and solicitation of contractors. I lead all the improvement projects at our wastewater treatment plant, aiming for excellent sewage treatment with a lower energy input. I also create mobile GIS mapping tools and custom graphics to visualize technical concepts for my coworkers, our elected officials, and the public we all serve.

Water Resources Engineer

United Nations and F.C.A.
China and Oregon

Dec 2016 - Mar 2018

Through two assignments at United Nations (UNIDO) in China and Farmers Conservation Alliance (FCA) in Oregon, I provided engineering support to policy movements aimed at putting water infrastructure development on a sustainable track. At UNIDO I researched small hydropower development for nearly every country in the world and helped bring this information online. At FCA one of my favorite contributions mapped out hydropower potential by quantifying this renewable energy resource in networks of irrigation canals.

Hydropower Engineer

Clemens Kraft
Oslo, Norway

Dec 2012 - Apr 2014

At a private small hydropower development firm, I co-managed the construction of two new run-of-the-river hydropower plants in Southern Norway, adding 3,100 kW of renewable capacity to the grid. In my central role, I coordinated all equipment supplier, consulting engineers, and contractors to bring the twin \$8 million plants online. I reviewed and approved every invoice, contract, and construction drawing for the entire project, and wrote the social and environmental pre-construction plans for public review and gov't approval.

Math Teacher

U.S. Peace Corps
Malawi

Sep 2009 - Sep 2011

Teaching mathematics for two years across a major language barrier in a remote part of East Africa forced me to be conscious of how my technical methods were being received by students speaking limited English. I simplified the universal language of mathematics to its most elementary statements and varied the medium of my lessons with a focus on visual graphs and hand-on activities. The communication skills I developed as a teacher continue to influence my engineering work as I create engineered plans that are easy to follow.

Staff Engineer

CH2M HILL
Redding, California

Jul 2007 - Aug 2009

My first engineering position was at one of California's largest hydraulic engineering design centers as part of a 20,000-person international consulting firm. Here I honed formal methods of civil engineering by co-designing some of California's largest water works being built at the time. The 2,000 cfs (57 cms) fish-screened pump stations I helped design aid the restoration of Sacramento River fisheries and modernize infrastructure for thousands of farmers. On smaller hydraulic structures, I led the design myself.

B.Sc. Civil Engineering

Oregon State University
Corvallis, Oregon

Sep 2003 - Sep 2007

I earned my civil engineering degree from Oregon State University in Corvallis and graduated in 2007 with an ABET-accredited Bachelor of Science in civil engineering and a grade point average of 3.41 of 4.00. My strongest subjects were raw mathematics and those subjects where applied mathematics is used to describe problems in the physical world: physics, fluid mechanics, structural analysis, and thermodynamics.