

Crystal Goodner

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Summary of Qualifications:

- Experience in public interaction, money handling, problem solving and safe decision-making, and quick learner.
- Knowledge in marine diesel engine operation, theory, and maintenance.

Related Experience

Sea Wolf Adventures Inc (01/10 – 04/10)

Engineer and Painter

- Worked on rebuild of 1940's Hamilton Diesel main engine (pulling liners, rebuilding cylinder heads, reinstalling and reassemble parts). Refurbished and repaired lift. Painted hull sides, hull bottom and various internal areas of vessel.

Port Townsend Shipwrights Co-op (02/09 – 01/10 contract per project)

General assistant

- Systems install and dismantle, engine routine maintenance, kit replacement on steering gear, plan and facilitate wire runs, basic electrical, welder fire watch, varnish, prep for painting,

GoldStar Marine (03/08 – 07/08)

Mechanic

- Hurricane Heater installations including wiring installation, plumbing heater hose and fresh water, air-handler installations, fuel pick up and plumbing, and exhaust installation.
- Worked with team planning wire runs, rewiring battery banks, removing props and rudders, dismantling, shaft packing removal and installation, modifying plumbing, and rebuilding 351 Ford marine engine.

Sound Experience (contract 11/07 - 03/08, live aboard)

Winter Engineer

Schooner Adventuress

- Organize winter task list, order and purchase parts, stay within monthly budget, manage volunteers, and instruct crew on ship's systems.
- Maintain ships systems including repair, installation, cleaning and inspection of electrical, plumbing, motors, water filtration, blowers, air compressor and pumps.
 - Main engine propulsion (Detroit Diesel 6-71): Assisted in blower kit replacement, tune-up. Performed fresh water pump installation, raw water impeller and cam replacement, Heat Exchanger inspection and gasket replacement, rust bust and painting, general fluid changes and preventative maintenance.
 - Haul out and Splash: Thruhole plumbing repair, zinc replacement and splash inspection.

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Steamer Virginia V foundation (03/07 – present: part time)

Fireman - Chief Engineer's Mate

- Operation of all auxiliary equipment from start up to shutdown. (Generators, steam driven pumps, fuel and fire pumps, boiler, shaft packing inspection, etc.)

Work with Chief Engineer in all aspects of safe operation of entire steam plant. Experience driving helm and engine. (reciprocating triple expansion 400 h.p. steam engine).

Northwest Seaport (11/06 – 11/07)

Ship Watcher and Volunteer Engineer

- Perform daily checks, inspection and operation of historic boats. Boats include The Arthur Foss Tugboat, Lightship Swiftsure, Schooner Wawona, Fireboat Duwamish, and Twilight.
- Operation of start up/shut down procedures for the generator, air compressor and main engine of the Arthur Foss Tug. General maintenance, engine upkeep and restoration of engine room.

Old Tacoma Marine (06/07 – 10/07 part time)

Machinist Assistant /Engineer

- Assist in the disassembly, cleaning and reconstruction of Atlas and Washington Diesel parts.
- Arthur Foss Haul out Engineer. Tug delivery to Dry dock, start up/shut down operating of generator for power, remove old shaft packing, dismantle black H2O plumbing system, thruhole replacements, and cleaning.

Grays Harbor Historical Seaport Authority (02/06 – 10/06 live aboard)

Engineer, Engineer's Mate, Topman, Teacher

Tall Ship Lady Washington

- Engineer – Perform daily, weekly, and monthly inspection and maintenance of all ship's plumbing, electrical, generators and main engine. Maintain daily logs, inventory and inspections. Manage all fuel fill operations, shore power set up and regulation of tanks. Worked on main engine cylinder head gasket replacement. (8V 71 series Detroit Diesel).
- Perform duties in traditional square rigged sail handling, watch leader, helm, ship and anchor watch, rigging and sail repair, ship maintenance and upkeep, training and instructing.

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Education

University of Washington, Seattle, WA (2002)

Bachelor of Art in Anthropology

Seattle Central Community College, Seattle, WA (2000)

Associate of Arts

Engineering Classes

CWB and Northwest Seaport

Arthur Foss Tug (1934 6-cylinder, 700- h.p. Washington Diesel)

Instructor Adrian Lipp, Owner of Old Tacoma Marine

- Engineer For A Day (2006)
- Diesel Engine Theory (2006)
- Diesel Engine Theory (2009) Teacher's Assistant

Basic marine diesel engine theory and functionality using the Arthur Foss' main engine. Focus of classes was to overhaul all fuel injectors, testing psi and replacing into engine. Inspection of one piston, ring replacement and reassemble. I aided instructor in both classes finishing tasks replacing injectors, push rods, rocker arms, and cylinder head removal.

USCG Documentation and Related Skills:

MMD-Z: OS, WIPER, SD(FH) Exp. 08/01/2012

Basic Safety Training BST- Fremont Maritime Services: Firefighting, first Aid, man-overboard, and emersion suit training.