

Roy Mears

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OBJECTIVES:

Computer Engineering student at CSULB looking to further my knowledge in the field of FPGAs, embedded systems, and chip design. Skilled in conducting independent research and exploration within the realm of computer engineering, with a commitment to academic excellence. Equipped with a comprehensive home workstation for hands-on experimentation and study in FPGAs, embedded systems, and chip design.

EDUCATION:

California State University Long Beach,

Bachelor's of Science in Computer Engineering, **3.7GPA:**

Expected: December 2025

Golden West College:

2015 - 2019

Liberal Arts: Emphasis in Computer Science and Technology, Associate in Arts Degree

Liberal Arts: Emphasis in Mathematics, Associate in Arts Degree

SKILLS:

Computer Languages and Architectures:

- C/C++, Java, Python, Verilog, Xilinx, Html, MatLab, TM4C123GH6PM, 8051, Zybo Z-20.

IDEs and EDA Tools:

- Eclipse, IntelliJ, Visual Studios, CodeLite, Sublime, Keil, Vivado, Vitis, LTSpice, and Altium.

Equipment Proficiency:

- Soldering, Oscilloscope DSO, Function Generator, Multi-Meter, Zybo FPGA, Three Phase Generators, 220V Pumps, Breaker Box Organization, Diesel Engines, and Full Woodworking Shop Proficiency.

RELEVANT WORK EXPERIENCE:

Gore Point LLC, Homer, AK (37ft Salmon Seiner):

May 2023 - Current

Nautical Engineer:

- Performed maintenance and upkeep of all vessel equipment, including main propulsion, electrical generators, industrial refrigeration system, and hydraulics.

Aquanator LLC, Valdez, AK (80ft 100-ton Salmon Tender):

May 2020 - October 2022

Engineer and Systems Coordinator:

- Planned and coordinated use of machinery, material and equipment to ensure efficient maintenance of shipboard equipment, including overseeing inventory and organization of parts and storage.
- Operated, monitored, and evaluated engine/refrigeration performance, compiling and delivering concise and timely reports of upkeep and equipment decline, suggesting and executing remedies to such equipment failures.

ADDITIONAL EXPERIENCE:

Woodcraft Supply of Fountain Valley: **Retail Associate / Lathe Instructor**

2018 - 2021

Newport Seabase: **Certified US Sailing and Woodworking Instructor:**

2016 - 2019

Boy Scouts of America: **Eagle Scout, Patrol Leader, Troop Guide and Chaplin.**

2014 - 2017