

Tanner Poling

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Dear MBARI Recruitment Team,

I would like to express my enthusiastic interest in the *Dorado AUV Operations Engineer - Software* position. I learned about this opportunity through the MBARI website, and prior to this have been interested in working at the Monterey Bay Aquarium Research Institute for the past few years. As I have been introduced to Ocean Engineering through internships and work experience, I have begun to grasp the insights, understanding of our planet, and in turn better stewardship that is generated by the development of Ocean Technology. From these experiences, I believe my passions and aspirations would only be satisfied as part of this industry, within an extraordinary organization such as MBARI.

Over the last year and a half I have worked as a Research Assistant at the University of Washington Applied Physics Lab, developing robotics navigation software using the Robot Operating System framework. I have primarily worked with C++ and Python involving acoustic and optical image processing, calibration of stereo cameras, testing and tuning sonar configurations, and simulating various test scenarios. Outside of my position at the APL, my coursework involves many of the skills required to excel in this position. Currently I am designing a custom PCB for a wireless blood oxygenation sensor as part of my capstone, have developed a Real-Time Embedded Operating System, and am implementing a 5-stage RISC-V microcontroller in SystemVerilog as part of my coursework on computer architecture.

Outside of the classroom my involvement in UW's Climbing Team, and the ample time outdoors this entails, has led me to a greater sense of appreciation for the unobserved intricacies of Earth's environment. This appreciation is why I developed an interest in Oceanographic Technology, and the reason I am confident in my passion for the work being done at MBARI. I have always felt a need to explore, understand, and give back to the waters that I call home. With my skills, experiences, and desire to translate my knowledge into projects directly benefiting the world's oceans, I believe I can be an asset to your team.

If you are seeking a passionate and eager engineer to join your team in pursuing the improved stewardship of the world's oceans, I look forward to speaking with you about becoming a productive member of MBARI. Please contact me at (206)-245-4256 or polint@uw.edu

Thank you for your time and consideration.

Sincerely,
Tanner Poling