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Feb. 5, 2021

MBARI
7700 Sandholdt Road
Moss Landing, CA 95039

To Whom It May Concern,

My name is Jason Jemison, and I am a recent graduate of Worcester Polytechnic Institute (WPI) as of December 2020 with a B.S. in Electrical and Computer Engineering and a minor in Business. Throughout my three and half years at WPI, my passion for the outdoors has grown significantly, and I want to apply my degree and technical skills to projects that have a positive effect on the environment and world around me. I have also developed a keen interest in the world of autonomous vehicles and systems is also very interesting to me. I want to apply my skills to projects that combine these interests, making the Dorado AUV Software Engineer position at MBARI appealing.

My project experience at WPI has allowed me to solve problems with open ended solutions using technology that would be found on an AUV. During my senior capstone project, my team and I utilized ROS to view the movement of a custom-built seven degree-of-freedom robotic arm for the teleoperation of a robotic nursing arm. Our puppet arm utilized SPI and I2C communication protocols to gather information related to joint position to be displayed in simulation. Other projects through my coursework have given me experience with microcontroller programming and real-time embedded systems, including work on C based microcontrollers and FPGA devices. Finally, during my internship experience in the summer of 2020, I had the opportunity to lead the development of a computer vision application for the real-time assessment of painted road markings. . I gained experience linking hardware and software to ensure the system would work at required speeds in real-time, which is an important quality of UAV operation.

All my projects have been team-based, which has given me a lot of experience working on technical projects with groups both in an in-person and remote setting. I think these experiences make me a strong candidate for this position along with my other project experiences. I am interested the opportunity to apply my technical skills to a project that relates to my passions for the outdoors with this position at MBARI. Attached is my resume, which further explains my experience and qualifications.

Please feel free to contact me by email at jajemison@wpi.edu or by phone at 315-261-2131 if you have any questions or need additional information.

Sincerely,
Jason Jemison