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|  | AUV Software Documentation |
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# Introduction

In this project we are tasked to work with the autonomy for the AUV for the capstone project. We must be able to navigate and control the sub using 3 cameras with 2 stationed at the front and the third at the bottom. Using these cameras and the visual input we must be able to see danger i.e. obstacles and waypoints that we must reach. We are creating the software using Python in conjunction with ROS and a few open source libraries like OpenCV for image processing and TensorFlow for the deep learning algorithm and object detection.