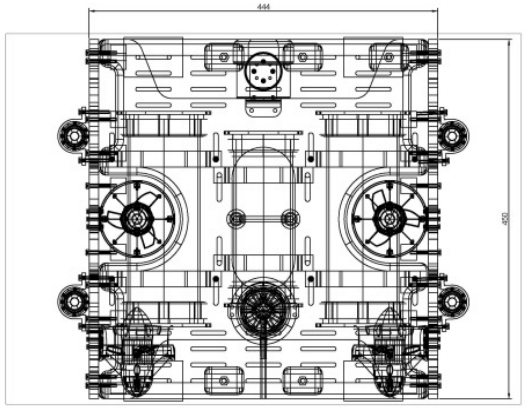
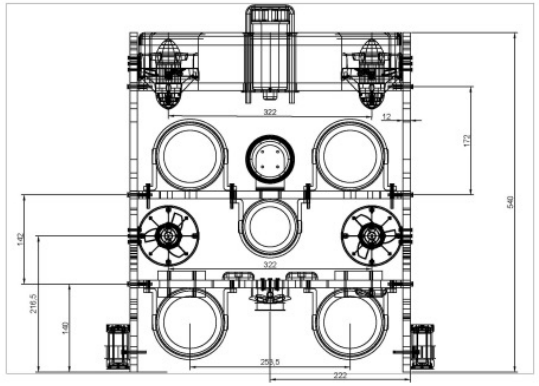
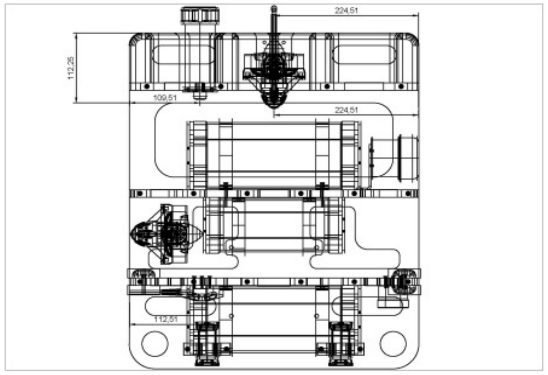
Experimental Platform Development

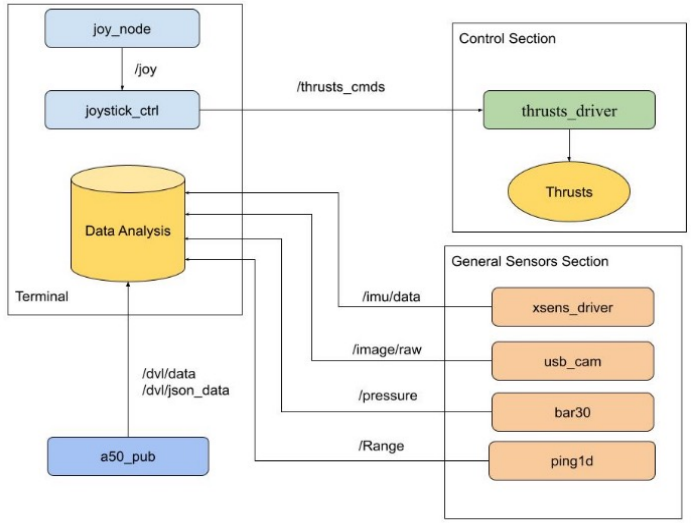
Modularisation Design







Software Development Based on ROS



Message Name	Function	Format
Thrusts.msg	Sending PWM values for thrusts_driver node	Customised float64[4] array
Imu.msg	Publishing IMU data: orientation, angular velocity, and linear acceleration	Standard ROS Imu Message
Range.msg	Publishing altimeter(Ping Sonar) data	Standard ROS sensor_msgs/Range.msg
FluidPressure.msg	Publishing bar30 pressure sensor data: pressure and temperature	Standard ROS sensor_msgs/FluidPressure.msg
Image.msg	Publishing raw images from camera	sensor_msgs/Image.msg
waterlinked a50 ros driver.msg	Publishing dvl data: linear Velocity, dead reckoning data, and covariance matrix	Customised Based on waterlinked_a50_ros_driver.msg