ABSTRACT

Sea is the one of the accommodation that will thrive in both of economics and military terms. Submarine is one way sea accommodation that can move in sea depth. Submarine more uses in military for snooping or in war to safeguard the sovereignty both of island and in a state, while the other function of the Submarine use for monitoring the underwater ecosystem that will developing the marine economy. Along with this times in terms both of knowledge and technology, the Submarine still in research in order for better result.

In this final project will be created an unmanned submarine or often called as AUV (Autonomous Underwater Vehicle). This AUV can be stable using laptop through of Arduino Uno. Focus of this topic placed to control algorithm, and MPU 6050 is used as the sensor that can be measured AUV movement. Control method in this project is Fuzzy logic. Fuzzy logic is used to control the propeller AUV that can maintain the position.

Expected from this project obtained AUV simulator as the result which can adjust AUV position with the given algorithm.

Keywords: : fuzzy logic , MPU 6050 sensor, arduino uno.