**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.

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