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MAE 434W

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Synthesizing Ideas: Developing a Thesis Statement or claim

By examining the output signals of the Arduino software, I will show how the power distribution to the propellers and calculation of calibrated inertial measurements affect the path guidance of the ASV from GPS coordinates received by the boat’s computer because:

* The maneuverability of the ASV depends on propeller input/output relations.
* Disturbances in the dynamics of the vehicle must be calculated by the inertial measurement unit to provide stability and path guidance.
* Deviations to the exact GPS coordinates must be input and corrected by the computer controller in order for the vehicle to maintain its course.