

4 Conclusion

This study verified the stabilization of attitude control by comparing matrix laboratory and Arduino through a Kalman filter, aiming to develop an SFAC system that improves safe flight. The results are similar in Figure 4 and Figure 5 above, but it is noted that there is more stabilization when Kalman filter is used directly in Arduino in Figure 5. The authors are going to conduct a study applying Kalman filter, combined with sensors other than MPU-6050 and achieving more stabilized values than that in the result of this study. If that is completed, this study will be helpful for applying and developing a quadcopter requiring attitude control stabilization for other purposes.

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