

DAFTAR PUSTAKA

- [1] F. Handalucy, Yandri and M. Taufiqurrahman, "Rancang Bangun Quadcopter Untuk Foto Udara," *JTRAIN : Jurnal Teknologi Rekayasa Teknik Mesin*, vol. 3, no. 2, pp. 32-37, 2022.
- [2] R. Khandait, V. Kumar, V. Bhurse, V. Tiwari and S. Khubalkar, "Quadcopter Control using Different Controllers," in *International Conference on Intelligent Controller and Computing for Smart Power (ICICCS)*, 2022.
- [3] M. S. A. Ihnak and M. M. Edardar, "Comparing LQR and PID Controllers for Quadcopter Control Effectiveness and Cost Analysis," in *Systems and Control*, 2023.
- [4] S. Maggo, S. Hussain, A. Deshpande and S. L. Patil, "Comparative Study of PID and FOPID Control Techniques for a Quadcopter," in *3rd International Conference on Electrical Engineering and Informatics (ICon EEI)*, 2022.
- [5] W.-H. Chen and J. I.-Z. Chen, "Performance Evaluation of a Quadcopter by an Optimized PID," in *Sixth International Symposium on Computer, Consumer and Control (IS3C)*, 2023.
- [6] B. Sumantri, N. Tamami, Y. B. Nuraga and B. Kurniawan, "Development of a Low-Cost Embedded Flight Controller for Quadcopter," in *International Electronics Symposium (IES)*, 2020.
- [7] F. A. Gunawan, "Kendali Quadcopter Menggunakan State Feedback dan Auto-Tuning Proportional-Derivative (PD) Controller Berbasis Reinforcement Learning untuk Proses Hovering," Yogyakarta, 2024.
- [8] F. Sabatino, "Quadrotor control: modeling, nonlinear control design, and simulation," Sweden, 2015.
- [9] A. Hassan, Z. Liu, S. M. S. Abbas, Y. Li, L. Wang and X. Liu, "Statistical scheme for fault detection using Arduino and MPU 6050," *Prognostics and System Health Management Conference (PHM-Qingdao)*, pp. 1-7, 2019.
- [10] M. A. Maisaguna, "Kontrol Gerak Roll dan Pitch Menggunakan Exponential Moving Average dan Regulator Optimal pada Mini Quadcopter Berbasis STM32F401," 2024.
- [11] A. Ma'arif, R. Istiarno and S. , "Kontrol Proporsional Integral Derivatif (PID) pada Kecepatan Sudut Motor DC dengan Pemodelan Identifikasi Sistem dan Tuning," *ELKOMIKA : Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, vol. 9, no. 2, pp. 374-388, 2021.

- [12] M. A, I. R and S. S, "Kontrol Proporsional Integral Derivatif (PID) pada Kecepatan Sudut Motor DC dengan Pemodelan Identifikasi Sistem dan Tuning," *ELKOMIKA*, vol. 9, no. 2, p. 374, 2021.
- [13] F. K. Nugroho, "Implementasi Kontrol PID untuk Mengurangi Daya dan Konsumsi Energi Listrik pada Dispenser Air Panas," Sleman, 2024.
- [14] A. Lukman, D. Afrilia, N. R. Wibowo and Y. Elviralita, "Implementasi Modul Kontrol Flow Menggunakan Kontroler PID Digital Berbaris Mikrontroler Atmega328," *MAPLE : Mechatronics Journal in Professional and Enterpreneur* , vol. 5, no. 2, pp. 39-48, 2023.
- [15] F. Isdaryani, M. F. V. Hesya and F. , "Sintesis Kendali PID Digital dengan Diskritisasi Langsung dan Backward Difference," *ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, vol. 9, no. 2, pp. 467-481, 2021.
- [16] L. Yongho, L. Moonyong and S. Park, "PID CONTROLLER TUNING TO OBTAIN DESIRED CLOSED-LOOP RESPONSES FOR CASCADE CONTROL SYSTEM," *IFAC Dynamics and Control of Process Systems*, pp. 613-618, 1998.
- [17] V. Veerasamy, N. I. A. Wahab, R. Ramachandran, M. L. Othman, H. Hizam, A. X. R. Irudayaraj, J. M. Guerrero and J. S. Kumar, "A Hankel Matrix Based Reduced Order Model for Stability Analysis of Hybrid Power System Using PSO-GSA Optimized Cascade PI-PD Controller for Automatic Load Frequency Control," vol. 8, 13 April 2020.
- [18] P. Wang, Z. Man, Z. Cao, J. Zheng and Y. Zhao, "Dynamics Modelling and Linear Control of Quadcopter," in *International Conference on Advanced Mechatronic Systems*, Melbroune, 2018.
- [19] E. Susanto and A. Surya, "Sistem Kendali Multivariabel," 2017.
- [20] E. S. A. Nugroho, N. D. Resty and I. Hudati, "IMPLEMENTASI FILTER KALMAN PADA SENSOR JARAK BERBASIS ULTRASONIK," *Jurnal Listrik, Instrumentasidan Elektronika Terapan*, vol. 2, no. 2, pp. 20-24, 2021.
- [21] A. Becker, KALMAN FILTER frim the Ground Up, 2023.
- [22] R. Wiryadinata and O. Palega, "KALMAN FILTER SEBAGAI METODE ESTIMASI UNTUK MENGUKUR KECEPATAN KENDARAAN," *Teknoin*, vol. 20, no. 4, pp. 1-8, 2014.
- [23] Rivai, A. H. Kurniawan and M. , "Sistem Stabilisasi Nampan," *TEKNIK ITS*, vol. 7, 2018.



- [24] F. Meng, Z. Zhu and L. Zhou, "Non-contact Infrared Temperature Measuring Device," *Frontiers in Computing and Intelligent Systems*, vol. 5, 2023.
- [25] A. T. Nugraha, A. D. Permana, E. Hidayana and R. A. Sobhita, "Pemodelan dan Simulasi Open Loop serta Close Loop Motor DC Type 18105 Orde 2," *Seminar Nasional Riset Inovatif (SENTRINOV) Ke-10*, vol. 10, no. 1, pp. 264-271, 2024.
- [26] D. S. Paksi, H. Batubara and Y. E. Prawatya, "Optimalisasi Kekuatan Tarik Produk Drone Propellers Berbahan Material Filament PETG pada Proses 3D Printing FDM dengan Metode Response Surface Methodology (RSM)," *Industrial Engineering and Management System*, vol. 7, no. 2, pp. 75-84, 2023.
- [27] M. G. A. Pradana, R. Prasakti, S. B. Worsito and N. Fajaryati, "INGLE PROPELLER DRONE (SINGRONE): INOVASI RANCANG BANGUN DRONE SINGLE PROPELLER SEBAGAI WAHANA PEMETAAN LAHAN BERBASIS UNMANNED AERIAL VEHICLE (UAV)," *Jurnal Electronics, Informatics, and Vocational Education (ELINVO)*, vol. 1, no. 3, pp. 156 - 162, 2016.
- [28] G. Guglieri, F. Marino and M. Hasanaj, "Design and Development of a test Bench for LiPo Batteries for Residual Charge Capacity Prediction," 2023.
- [29] T. W. Aji, "KONTROL GERAK ROLL DAN PITCH MENGGUNAKAN LINEAR QUADRATIC ESTIMATOR DAN REGULATOR PADA CORELESS MINI QUADCOPTER BERBASIS STM32F401," 2025.
- [30] G. E. Setyawan, E. Setiawan and W. Kurniawan, "Sistem Kendali Quadcopter Menggunakan PID," *Jurnal Teknologi Informasi dan Ilmu Komputer (JTIK)*, vol. 2, no. 2, pp. 125-131, 2015.
- [31] T. Adam, S. Dadvandipour and J. Futas, "Influence of discretization method on the digital control system performance," *Acta Montanistica Slovaca*, vol. 8, no. 4, pp. 197-200, 2003.
- [32] Z. Tahir, W. Tahir and S. A. Liaqat, "State Space System Modelling of a Quad Copter UAV," *Indian Journal of Science and Technology*, vol. 9, no. 27, 2016.