

DAFTAR PUSTAKA

- Agus Faudin. (2019, January 21). *Tutorial Arduino mengakses module accelerometer & Gyroscope MPU6050*. <https://www.nyebartilmu.com/tutorial-arduino-mengakses-module-accelorometer-gyroscope-mpu6050/>.
- Åström, K. J. (Karl J., Hägglund, Tore., & Åström, K. J. (1995). *PID controllers*. International Society for Measurement and Control.
- Azar, A. T., Ammar, H. H., Barakat, M. H., Saleh, M. A., & Abdelwahed, M. A. (2019). Self-balancing Robot Modeling and Control Using Two Degree of Freedom PID Controller. *Advances in Intelligent Systems and Computing*, 845, 64–76. https://doi.org/10.1007/978-3-319-99010-1_6
- Cui, J., Chen, Y., & Liu, T. (2016). *Discrete-time domain IMC-based PID control design for industrial processes with time delay*.
- Datasheet 8A 180KHz 40V Buck DC to DC Converter XL4016*. (n.d.). www.xlsemi.com
- Dawn Tilbury, Bill Messner, Rick Hill, JD Taylor, & Shuvra Das. (1997). *Inverted Pendulum: System Modeling*. <https://ctms.engin.umich.edu/CTMS/index.php?example=invertedpendulum§ion=systemmodeling>.
- Espressif. (2023). *ESP32WROOM32D & ESP32WROOM32U Datasheet* (Version 2.4). www.espressif.com.
- Gading Perkasa, & Glory K. Wadrianto. (2020, January 13). *Segway S-Pod, Alat Transportasi Masa Depan untuk Kaum Urban*. <https://lifestyle.kompas.com/read/2020/01/13/153143320/segway-s-pod-alat-transportasi-masa-depan-untuk-kaum-urban>.
- Garcia, Y. (2020, October 13). A self-tuning PID controller design based on fuzzy logic for nonlinear chemical processes. *2020 IEEE ANDESCON, ANDESCON 2020*. <https://doi.org/10.1109/ANDESCON50619.2020.9272108>
- Hestia. (n.d.). *775/795 DC Motor 12V-24V 3000-12000RPM High Torque*. <https://bulkman3d.com/product/dc-motor-12v-geared-high-torque/>.
- Maurya, Avinash. K., Bongulwar, M. R., & Patre, B. M. (2016). Tuning of fractional order PID controller for higher order process based on ITAE minimization. *2015 Annual IEEE India Conference (INDICON)*.
- Misra, S., Institute of Electrical and Electronics Engineers, IEEE International Conference on Adaptive Science & Technology 6 2014.10.29-31 Ota, IEEE International Conference on Adaptive Science and Technology 6 2014.10.29-31 Ota, & ICAST 6 2014.10.29-31 Ota. (2014). *2014 IEEE 6th International Conference on Adaptive Science & Technology (ICAST) 29 - 31 Oct. 2014, Ota, Nigeria*. IEEE.
- Mohamed Gad, O. M., Saleh, S. Z. M., Bulbul, M. A., & Khadraoui, S. (2022). Design and Control of Two Wheeled Self Balancing Robot (TWSBR). *2022 Advances in Science and Engineering*



- Mudeng, V., Hassanah, B., Tonce, Y., Priyanto, K., & Saputra, O. (2020). Design and Simulation of Two-Wheeled Balancing Mobile Robot with PID Controller. In *International Journal of Sustainable Transportation Technology* (Vol. 3, Issue 1).
- Nikita, T., & Prajwal, K. T. (2021). PID Controller Based Two Wheeled Self Balancing Robot. *Proceedings of the 5th International Conference on Trends in Electronics and Informatics, ICOEI 2021*, 1–4. <https://doi.org/10.1109/ICOEI51242.2021.9453091>
- RolfK. (2020, May 6). *Two wheeled self balancing robot (redesign)*. <https://Projecthub.Arduino.Cc/RolfK/Two-Wheeled-Self-Balancing-Robot-Redesign-581427>.
- Tihamér, Á., Dadvandipour, S., Ádám, T., & Futás, J. (2003). Influence of discretization method on the digital control system performance. In *Acta Montanistica Slovaca Ročník* (Vol. 8). <https://www.researchgate.net/publication/26403438>
- Ufactory. (2013, December 19). *2-Wheel Self Balancing Robot by Using Arduino and MPU6050*. <https://www.instructables.com/2-Wheel-Self-Balancing-Robot-by-Using-Arduino-And-/>.
- Weisstein, E. W. (2004, February 24). *Quaternion*. <https://mathworld.wolfram.com/Quaternion.html>.
- Yuslinda, S., Jaafar, H. I., Ghazali, R., Rafiqah, N., & Razif, A. (2015). The Effects of Auto-Tuned Method in PID and PD Control Scheme for Gantry Crane System. In *International Journal of Soft Computing and Engineering (IJSCE)* (Issue 6). <https://www.researchgate.net/publication/271823222>
- Yusuf, L. A., & Magaji, N. (2014). GA-PID controller for position control of inverted pendulum. *2014 IEEE 6th International Conference on Adaptive Science & Technology (ICAST)*, 1–5. <https://doi.org/10.1109/ICASTECH.2014.7068099>