

DAFTAR PUSTAKA

- [1] J. J. Soriano and others, “GRBL-Based Embedded CNC Controller for Low-Cost Machines,” *IEEE Access*, vol. 9, pp. 112345–112356, 2021.
- [2] J. Alvarez and M. Torres, “IoT-Based Monitoring System for CNC Machines Using ESP32,” *IEEE Access*, vol. 9, pp. 123456–123465, 2021, doi: 10.1109/ACCESS.2021.3098765.
- [3] S. Sivakumar and R. Prakash, “Design and Implementation of Low-Cost CNC Machine Using GRBL Firmware,” *Int. J. Eng. Res. Technol.*, vol. 9, no. 5, pp. 102–107, 2020.
- [4] Y. Chen and X. Liu, “Implementation of GRBL-Based CNC Controller Using Microcontroller,” *Int. J. Adv. Manuf. Technol.*, vol. 103, no. 5, pp. 2341–2352, 2019.
- [5] Texas Instruments, “TLV2372 Rail-to-Rail Operational Amplifier Datasheet,” 2019.
- [6] Toshiba Semiconductor, “TB6560AHQ Stepper Motor Driver IC Datasheet,” 2019.
- [7] A. R. Ahmad and others, “Noise Reduction Techniques in Stepper Motor Driver Circuits for CNC Applications,” *Int. J. Power Electron. Drive Syst.*, vol. 14, no. 2, pp. 987–995, 2023.
- [8] H. A. Harahap, “Design and Construction of CNC Using Arduino and GRBL,” in *Proceedings of ICDSET*, 2024.
- [9] N. Y. D. Setyaningsih, “CNC Plotter Printed Circuit Board Using GRBL and FlatCAM,” *Media Elektr.*, 2024.
- [10] Y. Chen and X. Liu, “Precision Control of Z-Axis in PCB Milling Using CNC,” *Int. J. Adv. Manuf. Technol.*, vol. 103, no. 5, pp. 2341–2352, 2019.
- [11] A. K. Saha and S. Mandal, “Performance Evaluation of PCB Milling Using Desktop CNC Machines,” *J. Manuf. Process.*, vol. 31, pp. 745–753, 2018.
- [12] A. Herwandi, “Performance Analysis of ESP32-CAM for Monitoring Applications,” *J. Technol. Innov.*, 2024.
- [13] Y. Chen and H. Liu, “Automatic Tool Height Detection Method for PCB Milling,” *J. Manuf. Process.*, vol. 73, pp. 560–568, 2022.

- [14] Texas Instruments, “Basics of Ideal Diodes and Power OR-ing,” 2021.
- [15] M. Rahman and M. A. Hossain, “Microcontroller-Based CNC Machine for PCB Manufacturing,” *Int. J. Adv. Comput. Sci. Appl.*, vol. 10, no. 6, pp. 344–350, 2019, doi: 10.14569/IJACSA.2019.0100646.
- [16] Texas Instruments, “Power OR-ing Architectures for Reliable Power Systems,” *Analog Appl. J.*, 2020.
- [17] Microchip Technology Inc., “ATmega328PB Datasheet,” 2020.
- [18] M. Brown, *Power Supply Design*. Oxford: Newnes, 2012.
- [19] P. Smid, *CNC Programming Handbook*. New York: Industrial Press, 2008.
- [20] P. Smid, *Computer Numerical Control Programming Handbook*. New York: Industrial Press, 2008.
- [21] B. J. Baliga, *Optocouplers: Principles and Applications*. Boca Raton: CRC Press, 2010.
- [22] Vishay Semiconductors, “4N35 Optocoupler Datasheet,” 2017.
- [23] V. Benda, *Power MOSFET Theory and Applications*. Chichester: Wiley, 1999.
- [24] P. Smid, *CNC Machining Handbook*. New York: Industrial Press, 2008.
- [25] Toshiba Corporation, “TB6560AHQ Stepper Motor Driver IC Datasheet,” 2011.
- [26] NXP Semiconductors, “74HC123 Dual Retriggerable Monostable Multivibrator Datasheet,” 2015.
- [27] N. Mohan, T. Undeland, and W. Robbins, *Power Electronics: Converters, Applications, and Design*. New York: Wiley, 2003.
- [28] T. Kenjo, *Stepper Motors: Fundamentals, Applications, and Design*. Berlin: Springer, 2003.
- [29] M. K. Kazimierczuk, *Pulse-Width Modulated DC--DC Power Converters*, 2nd ed. Wiley, 2021.
- [30] WCH Jiangsu QinHeng Co., Ltd., “CH340C USB to Serial Converter Datasheet,” 2018.
- [31] S. Jones, “GRBL: An Open-Source Firmware for CNC Motion Control,” *J. Open Hardw.*, vol. 2, no. 1, pp. 1–7, 2018.