

DAFTAR PUSTAKA

- [1] World Health Organization. “Global Patient Safety Action Plan 2021-2030: Towards eliminating avoidable harm in health care.” Jenewa: WHO Press, 2021.
- [2] Anzari, Y., F. Novriadi, N. Rahmawati, R. N. Akta, F. H. Aminuddin, dan T. Djauhari. “Deteksi Objek Real Time Dengan YOLOv4-tiny Dan Antarmuka Grafis Menggunakan OpenCV Python.” SENTRI: Jurnal Riset Ilmiah, vol. 3, no. 6, pp. 2715-2728, 2024.
- [3] Annisa, A. T., N. M. Yasin, dan S. A. Kristina. “Analisis Medication Error di Instalasi Farmasi Rawat Jalan RSPAD Gatot Soebroto Jakarta Pusat.” Jurnal Manajemen dan Pelayanan Farmasi, vol. 13, no. 3, pp. 113-128, 2023.
- [4] My, L. N. T., V. T. Le, T. Vo, dan V. T. Hoang. “A Comprehensive Review of Pill Image Recognition.” Computers, Materials & Continua, vol. 82, no. 1, 2025.
- [5] Sun, W., X. Niu, Z. Wu, dan Z. Guo. “Lightweight Detection Counting Method for Pill Boxes Based on Improved YOLOv8n.” Electronics, vol. 13, no. 24, pp. 4953, 2024.
- [6] Obeidat, Y. M. dan A. M. Alqudah. “An Embedded System Based on Raspberry Pi for Effective Electrocardiogram Monitoring.” Applied Sciences, vol. 13, no. 14, pp. 8273, 2023.
- [7] Holtkötter, J., R. Amaral, A. Pereira, C. Jácome, dan M. Pereira. “Development and Validation of a Digital Image Processing-Based Pill Detection Tool for an Oral Medication Self-Monitoring System.” Sensors, vol. 22, no. 8, pp. 2958, 2022.

- [8] Hajari, V. R., P. Goel, L. Goel, A. D. Chawda, dan A. Renuka. "Embedded Systems Design for High-Performance Medical Applications." *Journal of Quantum Science and Technology*, vol. 1, no. 3, pp. 75-83, 2024.
- [9] Embedded Hash. "Classification of Embedded System." LinkedIn, 6 Juni 2024. <https://www.linkedin.com/pulse/classification-embedded-system-embedded-hash-353jc/>.
- [10] Saniah, S. dan M. Furqan. "Classification Of Rice Plant Diseases Using K-Nearest Neighbor Algorithm Based on Hue Saturation Value Color Extraction and Gray Level Co-Occurrence Matrix Features." *Jurnal Teknologi Dan Open Source*, vol. 7, no. 2, pp. 212-223, 2024.
- [11] Ranjitha dan S. S. Kulkarni. "Color and Shape Recognition of Pills using Image Processing." *International Journal of Engineering Research & Technology (IJERT)*, Special Issue, 2019.
- [12] Rizky A, G. P. dan R. Widyastuti. "Real-Time Pill Counting on Low-Power Device: A YOLOv5 Pipeline with Confidence Thresholding and NMS." *Jurnal Teknik Informatika C.I.T Medicom*, vol. 17, no. 5, pp. 225-241, 2025.
- [13] Ozkan, M. "Toward Automated Quality Control: An End-to-End Image Processing and Machine Learning Pipeline for Bullet Case Mouth Defect Detection." *IEEE Access*, vol. 13, pp. 42900-42915, 2025.
- [14] Yoon, K., S. Lee, J. Park, dan K. G. Kim. "CNN-Based Automatic Tablet Classification Using a Vibration-Controlled Bowl Feeder with Spiral Torque Optimization." *Sensors*, vol. 25, no. 14, pp. 4248, 2025.
- [15] Mabuchi Motor Co., Ltd. "RE-140/RS-130 Series DC Motor Product Catalog & Specifications." Matsudo, Japan: Mabuchi Motor, 2018.
- [16] Bridgelux, Inc., "High Power 1W White LED Emitter Datasheet (Star PCB)." Fremont, CA: Bridgelux, 2019.

- [17] Raspberry Pi Ltd. "Raspberry Pi 4 Model B Product Brief." Raspberry Pi Ltd, April 2026.
- [18] A. Singh, "Raspberry Pi 4 Pinout, Specifications and Applications," Hackatronic, 2021, [Online]. Available: <https://www.hackatronic.com/raspberry-pi-4-specifications-pin-diagram-and-description>.
- [19] Arducam. "Camera Module for Raspberry Pi (SKU: B0390)." Arducam, 2022.
- [20] Multicomp Pro. "LED Pure White, 5mm - MCL053SWC-WH1 Datasheet." Premier Farnell Limited, 2019.
- [21] LCDWiki. "7inch-MPI7002 HDMI Display-C Datasheet." www.lcdwiki.com, 2025.
- [22] Xprinter. "XP-365B Thermal Barcode Printer Datasheet." Zhuhai Xinye Technology Co., Ltd, 2020.
- [23] MEAN WELL Enterprises Co., Ltd. "LRS-50 Series 50W Single Output Switching Power Supply." New Taipei City, Taiwan: MEAN WELL, 2021.
- [24] Infineon Technologies AG. "IRLZ44NPbF HEXFET Power MOSFET Datasheet." Munich, Germany: Infineon Technologies, 2012.
- [25] Vishay General Semiconductor. "1N4001 thru 1N4007 General Purpose Plastic Rectifier Datasheet." Shelton, CT: Vishay Intertechnology, Inc, 2018.
- [26] Boylestad, R. L., & Nashelsky, L. "*Electronic Devices and Circuit Theory* (11th ed.)." Boston, MA: Pearson Education, 2012.
- [27] Nahiduzzaman, M., dkk. "Deep learning-based real-time detection and classification of tomato ripeness stages using YOLOv8 on raspberry Pi." Engineering Research Express, vol. 7, no. 1, 015219, 2025.
- [28] Zubair, M., A. Waleed, A. Rehman, F. Ahmad, M. Islam, dan S. Javed. "Next-Generation Healthcare: Design and Implementation of a Smart Medicine

Vending System.” Proceedings of 2024 Horizons of Information Technology and Engineering (HITE), pp. 1-6, 2024.

- [29] Malakhov, A. “Composable Multi-Threading for Python Libraries.” Proceedings of the 15th Python in Science Conference (SciPy 2016), 2016 (ResearchGate 2024).
- [30] Kamil, M. I., S. Mujahidin, dan R. K. Abdullah. “Pengembangan Deteksi Objek Dalam Rumah Bagi Tunanetra Berbasis Optimasi YOLOv8 Menggunakan Metode Ghost Module dan Attention Mechanism.” Jurnal FASILKOM, vol. 14, no. 3, pp. 646-653, 2024.
- [31] Salsabilla, D. R. “Implementasi REST-API Untuk Sistem Informasi Administrasi Di Redha Wedding Jakarta.” Journal of Information Technology and Computer Science (INTECOMS), vol. 7, no. 2, pp. 319-325, 2024.
- [32] Kojansow, C. W., P. D. K. Manembu, dan A. M. Rumagit. “Internet Of Things (IoT) Platform Development using WebSocket communication.” Jurnal Teknik Informatika, vol. 19, no. 3, pp. 259-269, 2024.
- [33] Irawan, C. A. dan S. Sibagariang. “Penerapan Teknologi Raspberry Pi dalam Monitoring Kehadiran dan Pelanggaran Siswa berbasis Website.” Jurnal Teknologi Komputer dan Informasi (JUTEKINF), vol. 13, no. 1, pp. 41-52, 2025.
- [34] Shari, A. N. B., M. H. Rahmat, dan A. A. Aziz. “PILLZ: Smart Pill Dispenser System for Senior Care.” Progress in Computer and Mathematics Journal (PCMJ), vol. 3, 2025.