

DAFTAR PUSTAKA

- [1] Badan Pusat Statistik, *Statistik Kopi Indonesia 2023*, Jakarta: BPS, 2023.
- [2] A. Farah, *Coffee: Production, Quality and Chemistry*, Cambridge, U.K.: Royal Society of Chemistry, 2012.
- [3] AMS AG, *TCS34725 Color Light-to-Digital Converter with IR Filter Datasheet*, 2018.
- [4] A. Banks and R. Gupta, "MQTT Version 3.1.1," OASIS Standard, 2014.
- [5] A. Kusmati and D. Y. Nursamsiyah, "Kelayakan Finansial Usahatani Kopi Arabika dan Prospek Pengembangannya di Ketinggian Sedang," *Agriekonomika*, vol. 4, no. 2, pp. 221–234, 2015.
- [6] R. D. Permana and L. S. Masrilurrahman, "Identifikasi Tingkat Kerusakan Pada Tanaman Kopi Yang Disebabkan Oleh Hama Di Desa Karang Sidemen Kecamatan Batukliang Utara Kabupaten Lombok Tengah," *J. Silva Samalas*, vol. 4, no. 1, pp. 10–14, 2021.
- [7] Khalisuddin, A. S. Setyantoro, A. P. Gayosia, and W. R. Bathin, *Kopi dan Kehidupan Sosial Budaya Masyarakat Gayo*, 2012.
- [8] S. R. Raysyah, V. Arinal, and D. I. Mulyana, "Klasifikasi Tingkat Kematangan Buah Kopi Berdasarkan Deteksi Warna Menggunakan Metode KNN dan PCA," *JSiI*, vol. 8, no. 2, pp. 88–95, 2021, doi: 10.30656/jsii.v8i2.3638.
- [9] J. S. Pereira, R. R. Magalhães, F. L. Santos, E. T. de Andrade, and L. S. Marques, "Modeling of Coffee Fruit: An Approach to Simulate the Effects of Compression," *AgriEngineering*, vol. 5, no. 4, pp. 2303–2313, 2023, doi: 10.3390/agriengineering5040141.
- [10] S. Alfarisi and M. I. Sulaiman, "Pengaruh Waktu Fermentasi dan Tingkat Penyangraian Terhadap Nilai pH dan Total Padatan Terlarut Pada Kopi Wine Liberika Tangse," *J. Ilm. Mahasiswa Pertanian*, vol. 8, Nov. 2023, pp. 412–418.

- [11] Handson Technology, "ESP8266 NodeMCU WiFi Development Board," Handson Technology, 2018. [Online]. Available: www.handsontec.com.
- [12] M. D. Utami, A. A. Zahra, and S. Sudjadi, "Perancangan Dan Analisa Kinerja Sistem Akuisisi Data Sensor TCS34725 Dan Pengendalian Pompa Motor DC Pada Alat Pencampur Warna," *Transient: J. Ilm. Tek. Elektro*, vol. 9, no. 3, pp. 360–367, 2020, doi: 10.14710/transient.v9i3.360-367.
- [13] V. Ta'ali, A. Wati, A. Habibullah, and J. Sardi, "Pembacaan RGB Warna Terhadap Lima Warna yang Berbeda pada Sensor TCS34725," *JTEIN: J. Tek. Elektro Indonesia*, vol. 4, no. 1, pp. 84–90, 2023, doi: 10.24036/jtein.v4i1.352.
- [14] Texas Advanced Optoelectronic Solutions Inc., "TCS34725 - Color Light-to-Digital Converter with IR Filter," 2012. [Online]. Available: www.taosinc.com.
- [15] E. Hecht, *Optics*, 5th ed. Boston, MA, USA: Pearson, 2017.
- [16] ITU-R BT.601, *Studio Encoding Parameters of Digital Television*, International Telecommunication Union, 2011.
- [17] A. G. Illy and R. Viani, *Espresso Coffee: The Science of Quality*, 2nd ed. London, U.K.: Academic Press, 2005.
- [18] P. Y. Waroh, "Analisa dan simulasi sistem pengendali motor DC," *J. Ilm. Sains*, vol. 14, no. 2, pp. 80–86, 2014.
- [19] S. Hartanto, "Tegangan Motor DC Terhadap Berat Barang Pada Ban Berjalan," *J. Elektro*, vol. 10, no. 2, pp. 174–181, 2022.
- [20] B. C. Wibowo, A. Triwiyatno, and S. Sudjadi, "Perancangan Pengaturan Kecepatan Motor DC Pada Otomasi Sablon Kaos Dengan Metode Pulse Width Modulation (PWM)," *Transient: J. Ilm. Tek. Elektro*, vol. 12, no. 1, pp. 39–47, 2023, doi: 10.14710/transient.v12i1.39-47.

- [21] A. Sofwan, S. Alfian, and R. Soleman, "Perancangan Teknologi Dalam Penerapan Robot Pelayan Tamu Cottage," *J. Teknol. Inform.*, vol. 5, no. 2, pp. 285–292, 2017.
- [22] D. Saripurna, A. Calam, Y. Yusnidah, and Z. Lubis, "Sistem Cerdas Pemanggang Jagung Semi Otomatis Berbasis Mikrokontroler Menggunakan Metode PWM," *J. SAINTIKOM*, vol. 18, no. 1, pp. 82–91, 2019, doi: 10.53513/jis.v18i1.108.
- [23] T. Suhendra, A. Uperiati, D. A. Purnamasari, and A. H. Yuniato, "Kendali Kecepatan Motor DC dengan Metode Pulse Width Modulation menggunakan N-channel Mosfet," *J. Sustainable*, vol. 7, no. 2, pp. 78–85, 2018, doi: 10.31629/sustainable.v7i2.701.
- [24] Texas Instruments, "LM2596 Simple Switcher® Power Converter 150-kHz 3-A Step-Down Voltage Regulator," 2023. [Online]. Available: www.ti.com.
- [25] H. M. Ali, Y. Hashim, and G. A. Al-Sakkal, "Design and implementation of Arduino based robotic arm," *Int. J. Electr. Comput. Eng.*, vol. 12, no. 2, pp. 1411–1418, 2022, doi: 10.11591/ijece.v12i2.pp1411-1418.
- [26] Alimuddin, "Sistem parkir cerdas sederhana berbasis Arduino Mega 2560 Rev3," *Electro Luceat*, vol. 4, no. 1, pp. 20–31, 2018.
- [27] D. Pratmanto, A. Ardiyansah, A. E. Widodo, and F. Titiani, "Pembuatan Alat Pendeteksi Kadar Logam Pada Air Berbasis Arduino UNO," *J. Evolusi*, vol. 7, no. 1, pp. 29–34, 2019.
- [28] H. Sudjendro, *Perekayasaan Sistem Radio dan Televisi*. Kementerian Pendidikan dan Kebudayaan RI, 2013.
- [29] S. Suhaeb, Y. A. Djawad, H. Jaya, Ridwansyah, Sabran, and A. Risal, *Mikrokontroler dan Interface*. Buku Ajar Jurusan Pendidikan Teknik Elektronika UNM, 2017. [Online]. Available:
- [30] R. Kurnia, R. Firdaus, L. Lufti, and M. H. Anshor, "Otomatisasi Sensor Load Cell Untuk Mengatasi Overload Kendaraan," *J. Nas. Tek. Elektro*, vol. 8, no. 2, p. 81, 2019, doi: 10.25077/jnte.v8n2.666.2019.

- [31] O. S. Al-Dahiree, M. O. Tokhi, N. H. Hadi, N. R. Hmoad, R. A. R. Ghazilla, H. J. Yap, and E. A. Albaadani, "Design and Shape Optimization of Strain Gauge Load Cell for Axial Force Measurement for Test Benches," *Sensors*, vol. 22, no. 19, pp. 1–19, 2022, doi: 10.3390/s22197508.
- [32] M. H. Pramudito and D. B. Santoso, "Sistem Pengendali Barge Loading Conveyor Pada Belt Conveyor Pemindah Batu Bara," *Power Elektronik: J. Orang Elektro*, vol. 11, no. 2, pp. 168–174, 2022, doi: 10.30591/polektro.v12i1.3655.
- [33] M. Iqbal and Safaruddin, "Belt Conveyor," *J. Terapan Internship & Multidisiplin*, vol. 1, Apr. 2022.
- [34] Y. Efendi, "Internet of Things (IoT) Sistem Pengendalian Lampu Menggunakan Raspberry Pi Berbasis Mobile," *J. Ilm. Ilmu Komputer*, vol. 4, no. 2, pp. 21–27, 2018, doi: 10.35329/jiik.v4i2.41.
- [35] Y. Setiawan, H. Tanudjaja, and S. Octaviani, "Penggunaan Internet of Things (IoT) untuk Pemantauan dan Pengendalian Sistem Hidroponik," *TESLA: J. Tek. Elektro*, vol. 20, no. 2, pp. 175–184, 2019, doi: 10.24912/tesla.v20i2.2994.
- [36] Wilianto and A. Kurniawan, "Sejarah, Cara Kerja Dan Manfaat Internet of Things," *Matrix*, vol. 8, no. 2, pp. 36–41, 2018.