

DAFTAR PUSTAKA

- [1] I. Kambe, . D., and A. Y. Kholil, “Analisis Produksi Alpukat (Persea Americana) Di Indonesia,” *Jurnal Ekonomi Pertanian dan Agribisnis*, vol. 3, no. 1, pp. 46–51, Aug. 2025, doi: 10.62379/jepag.v3i1.3560.
- [2] J. Saputra, Y. Sa’adati, V. Y. P. Ardhana, and M. Afriansyah, “Klasifikasi kematangan buah alpukat mentega menggunakan metode k-nearest neighbor berdasarkan warna kulit buah,” *Resolusi: Rekayasa Teknik Informatika dan Informasi*, vol. 3, no. 5, pp. 347–354, 2023.
- [3] A. Hamzah, E. Susanti, and R. M. Lestari, “Klasifikasi Kematangan Buah Alpukat Mentega Berdasarkan Fitur Warna Menggunakan Support Vector Machine,” *Journal of Innovation And Future Technology*, vol. 6, no. 1, pp. 108–120, 2024.
- [4] D. D. Arfika, I. Syafitri, and P. H. Pahutar, “SISTEM PENDETEKSI KEMATANGAN BUAH ALPUKAT DENGAN TRANSFORMASI RUANG WARNA HSI,” *JATI (Jurnal Mahasiswa Teknik Informatika)*, vol. 8, no. 4, pp. 6061–6066, 2024.
- [5] A. Rahma, M. Muzaifa, F. Rahmi, and M. Rahmany, “RANCANG BANGUN ALAT DETEKSI KEMATANGAN BUAH KOPI ARABIKA MENGGUNAKAN SENSOR TCS3200 BERBASIS ARDUINO,” 2026.
- [6] H. Hadirawati *et al.*, “Sistem Penyortir Otomatis Kematangan Tomat Berdasarkan Warna Dengan Sensor Tcs3200 Berbasis Internet of Things,” *Journal of Applied Electrical and Energy System*, vol. 1, no. 2, 2023.
- [7] N. Badri and P. Jaya, “Rancang Bangun Alat Pendeteksi Kematangan Buah Durian,” *TSAQOFAH*, vol. 5, no. 4, pp. 3790–3799, Jul. 2025, doi: 10.58578/tsaqofah.v5i4.6535.
- [8] S. M. Solihat, S. Salsabila, and S. Susilawati, “SISTEM PEMANTAUAN KUALITAS UDARA BERBASIS ESP32 MENGGUNAKAN SENSOR GAS MQ-135 DAN MQ-2,” *Jurnal Informatika dan Teknik Elektro Terapan*, vol. 14, no. 1, 2026.
- [9] Ahmad Hadi and A. Zuhair, “IMPLEMENTASI PEMILAH BARANG PAKET EKSPEDISI MENGGUNAKAN QR CODE DENGAN ESP32

YANG TERINTEGRASI DENGAN GOOGLE SPREADSHEET UNTUK MANAJEMEN DATA,” *Jurnal Qua Teknika*, vol. 15, no. 02, pp. 119–124, Sep. 2025, doi: 10.35457/quateknika.v15i02.5083.

- [10] A. C. M. Putro and R. Rasyid, “Rancang Bangun Detektor Kematangan Buah Kelapa Sawit Menggunakan Sensor Tcs3200 Dan Modul Wifi ESP32-CAM dengan Notifikasi via Telegram,” *Jurnal Fisika Unand*, vol. 13, no. 1, pp. 68–74, Jan. 2024, doi: 10.25077/jfu.13.1.68-74.2024.
- [11] F. Aprilliani and H. Hernowo, “Non-Destructive Method to Evaluate The Relationship Between Skin Color and Quality Characteristic of Avocado (*Persea americana* Mill.),” *Jurnal Ilmiah Inovasi*, vol. 22, no. 3, pp. 297–303, Dec. 2022, doi: 10.25047/jii.v22i3.3621.
- [12] F. Aprilliani, D. Atmiasih, and A. Ristiono, “THE EVALUATION OF AVOCADO (*Persea americana* Mill.) MATURITY LEVEL USING IMAGE PROCESSING TECHNOLOGY,” *Jurnal Penelitian Pascapanen Pertanian*, vol. 18, no. 1, p. 1, Jun. 2021, doi: 10.21082/jpasca.v18n1.2021.1-8.
- [13] M. H. Hanafi, N. Fadillah, and A. Insan, “Optimasi Algoritma K-Nearest Neighbor untuk Klasifikasi Tingkat Kematangan Buah Alpukat Berdasarkan Warna,” *IT JOURNAL RESEARCH AND DEVELOPMENT*, vol. 4, no. 1, pp. 10–18, May 2019, doi: 10.25299/itjrd.2019.vol4(1).2477.
- [14] A. C. Ornella, N. L. Yulianti, and I. G. N. A. Aviantara, “Pengaruh Waktu Kontak dan Jenis Arang Aktif terhadap Karakteristik Buah Alpukat Mentega Selama Penyimpanan,” *Jurnal BETA (Biosistem dan Teknik Pertanian)*, vol. 12, no. 1, p. 156, Aug. 2023, doi: 10.24843/JBETA.2024.v12.i01.p18.
- [15] T. R. Muliani and J. Sumarsono, “Deteksi Tingkat Kematangan Buah Alpukat (*Persea americana* Mill.) Menggunakan Algoritma Klasifikasi Dan Metode Stratified Kfold Cross Validation,” *J-AGENT (Journal of Agricultural Engineering and Technology)*, vol. 2, no. 1, pp. 40–49, 2024.
- [16] S. J. Wicaksono, “Pendekatan Multimodal untuk Deteksi Kematangan Buah Mangga Berbasis CNN dan Sensor Gas MQ-135,” in *Seminar Nasional Teknologi & Sains*, 2026, pp. 894–899.

- [17] BISA IoT, “Instroduction ESP32 sebagai Mikrokontroller,” BISA IoT. Accessed: Sep. 23, 2026. [Online]. Available: <https://bisaioti.com/instroduction-esp32-sebagai-mikrokontroller/>
- [18] ElectronicWings, “TCS3200 Color Sensor Interfacing with ESP32,” ElectronicWings. Accessed: Sep. 23, 2026. [Online]. Available: <https://www.electronicwings.com/esp32/tcs3200-color-sensor-interfacing-with-esp32>
- [19] Waveshare, “MQ-135 Gas Sensor,” Waveshare Wiki. Accessed: Sep. 23, 2026. [Online]. Available: https://www.waveshare.com/wiki/MQ-135_Gas_Sensor
- [20] K. Effendi, “Rancang Bangun Sistem Catu Daya Dengan Metode Switching Mode Power Supply (Smpps) Berbasis Arduino Untuk Aplikasi Electrospinner,” 2019.
- [21] F. C. H. de Melo, G. Tjahjono, and I. Fahmi, “Rancang Bangun Switching Mode Power Supply (SMPS) Menggunakan Topologi Flyback,” *Jurnal Spektro*, vol. 7, no. 2, pp. 1–7, 2024.
- [22] Tokopedia, “SOMPOM S-10-5 5V 2A Switching Power Supply,” Tokopedia. Accessed: Sep. 23, 2026. [Online]. Available: <https://images.tokopedia.net/img/cache/900/VqbcmM/2023/1/23/beb9d8f4-1859-4509-9a83-1b8d54b774ba.jpg>
- [23] Ichibot Store, “Modul I2C LCD 16x2 Interface Serial Converter Adapter 2.54mm,” Ichibot Store. Accessed: Sep. 23, 2026. [Online]. Available: <https://store.ichibot.id/product/i2c-serial-interface-lcd-16x2-serial-interface-untuk-lcd-16x2/>
- [24] S. F. Putri and N. W. A. Dati, “RANCANG BANGUN SISTEM PERINGATAN DAN KENDALI KELEMBABAN MEDIA TANAM OTOMATIS BERBASIS ARDUINO UNO DENGAN TAMPILAN LCD I2C,” *Jurnal Informatika dan Teknik Elektro Terapan*, vol. 14, no. 2, Apr. 2026, doi: 10.23960/jitet.v14i2.9178.
- [25] M. Asep Rizkiawan, Z. Avista, E. Kurniawan, and B. Ghalib, “Arduino Uno based LCD I2C Running Text Simulation Using Online Simulator as Virtual

- Prototype Media,” *Tech : Journal of Engineering Science*, vol. 2, no. 1, pp. 102–112, Apr. 2026, doi: 10.69836/tech.v2i1.748.
- [26] Arduino, “Arduino Logo,” Arduino Support. Accessed: Sep. 23, 2026. [Online]. Available: https://support.arduino.cc/hc/theming_assets/01KEEJRXXNH1WFCAZ8SDRQGEDCW
- [27] R. Ramadhanil, S. Meliala, M. Muhammad, and Y. Amani, “MONITORING SUHU OVERHEAT PADA TRANSFORMATOR 1 FASA BERBASIS ESP32 MENGGUNAKAN GOOGLE SPREADSHEET,” *Jurnal Teknologi Terapan and Sains 4.0*, vol. 6, no. 2, 2025.
- [28] Rangga Hafidin, “Google Spreadsheet,” WPS Office. Accessed: Sep. 23, 2026. [Online]. Available: <https://id.wps.com/artikel-excel/how-to-download-google-sheets-for-pc-win10-and-win11/>
- [29] N. A. Istiqamah, “Klasifikasi Tingkat Kematangan Buah Jeruk Menggunakan Sensor Warna TCS3200 Berbasis RGB,” *Protech Biosystems Journal*, vol. 4, no. 2, p. 97, Dec. 2024, doi: 10.31764/protech.v4i2.31749.
- [30] Ltd. Hanwei Electronics Co., “Technical Data MQ-135 Gas Sensor,” 2010. Accessed: Sep. 21, 2026. [Online]. Available: https://www.electronicoscaldas.com/datasheet/MQ-135_Hanwei.pdf?srsltid=AfmBOoojd10ywkejiuekp4ChVDXaLBSpZQrEbE8NpHEYdFh9me1aKa0R
- [31] A. Rahardjo, D. Desriyanti, and J. S. Habibi, “RANCANG BANGUN ALAT PEMBERSIH KOTORAN DAN KONTROL SUHU OTOMATIS PADA KANDANG PUYUH,” *E-Link: Jurnal Teknik Elektro dan Informatika*, vol. 19, no. 1, p. 43, May 2024, doi: 10.30587/e-link.v19i1.7390.