

DAFTAR PUSTAKA

- [1] A. Sheikh, T. Lambat, L. Lohe, and A. Shrirame, "Solar Powered Irrigation Using Arduino UNO," *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Impact Factor 7.047*, vol. 10, 2022, doi: 10.17148/IJIREEICE.2022.10439.
- [2] N. S. Abu et al., "Internet of Things Applications in Precision Agriculture: A Review," May 01, 2022, *Department of Agribusiness, Universitas Muhammadiyah Yogyakarta*. doi: 10.18196/jrc.v3i3.14159.
- [3] J. Mukherjee et al., "Non Plant Specific Smart Greenhouse with Convective Drying Unit," *Institute of Electrical and Electronics Engineers (IEEE)*, Sep. 2024, pp. 1–4. doi: 10.1109/tqcebt59414.2024.10545221.
- [4] G. Federico and P. M. Lasheras, "Risk management in traditional agriculture: intercropping in Italian wine production," *Eur Rev Econ Hist*, vol. 28, no. 2, pp. 193–224, May 2024, doi: 10.1093/ereh/head017.
- [5] M. Simpal, A. Jurao Jr, C. J. Estrella, K. J. Jardimlin, and T. C. Leyza, "IoT-Based Automated Garden Irrigation and Monitoring System Using Advanced Technology," *International Research Journal of Innovations in Engineering and Technology*, vol. 05, no. 11, pp. 44–51, 2021, doi: 10.47001/irjiet/2021.511008.
- [6] I. Andrić, A. Vrsalović, T. Perković, M. Aglič Čuvic, and P. Šolić, "IoT approach towards smart water usage," *J Clean Prod*, vol. 365, Sep. 2022, doi: 10.1016/j.jclepro.2022.132792.
- [7] S. Sen and A. Dasgupta, "Automatic Irrigation System with Water-Level Indicator and IOT Enabled Humidity Lodger," in *2022 IEEE Delhi Section Conference, DELCON 2022*, Institute of Electrical and Electronics Engineers Inc., 2022. doi: 10.1109/DELCON54057.2022.9753499.
- [8] A. Jegede, G. Shanding, G. Thomas, A. A. Fadele, and A. Fadele, "A Prototype of An Automated Farm Monitoring System," *International Journal of Information Processing and Communication (IJIPC)*, vol. 11, no. 2, pp. 1–22, 2021, [Online]. Available: <https://www.researchgate.net/publication/357407524>
- [9] S. Hossain and Md. P. H. Bijoy Chowdhury, "AgroSense: An IoT-Based Manual Crops Selection Farming," *International Journal on Information and Communication Technology (IJoICT)*, vol. 10, no. 1, pp. 53–61, Jun. 2024, doi: 10.21108/ijoict.v10i1.918.
- [10] B. Camburn et al., "Design prototyping methods: State of the art in strategies, techniques, and guidelines," *Design Science*, vol. 3, 2017, doi: 10.1017/dsj.2017.10.
- [11] P. Satriyo, I. S. Nasution, and S. F'Alia, "IoT-enable smart agriculture using multiple sensors for sprinkle irrigation systems," in *IOP Conference Series: Earth and Environmental Science*, Institute of Physics, 2024. doi: 10.1088/1755-1315/1290/1/012027.
- [12] S. Muthusundari, M. Manuteja, N. Yeshwanth, K. K. Reddy, M. I. Habelalmateen, and S. Ritwika, "A Smart Farming: Implementation of IoT Based Automated Agricultural Monitoring System," in *International*

- Conference for Technological Engineering and its Applications in Sustainable Development, ICTEASD 2023*, Institute of Electrical and Electronics Engineers Inc., 2023, pp. 13–19. doi: 10.1109/ICTEASD57136.2023.10585190.
- [13] Md. M. Islam*, Md. Al-Momin, A. B. M. Tauhid, Md. K. Hossain, and S. Sarker, “IoT Based Smart Irrigation Monitoring & Controlling System in Agriculture,” *International Journal of Recent Technology and Engineering (IJRTE)*, vol. 8, no. 6, pp. 2436–2439, Mar. 2020, doi: 10.35940/ijrte.E6851.038620.
 - [14] F. M. Zaki, M. Tajjudin, and N. Ishak, “IoT-Based System for Monitoring Smart Agriculture’s Automated Irrigation,” in *2023 IEEE International Conference on Agrosystem Engineering, Technology and Applications, AGRETA 2023*, Institute of Electrical and Electronics Engineers Inc., 2023, pp. 135–141. doi: 10.1109/AGRETA57740.2023.10262688.
 - [15] D. N. Paez-Quinde, S. Chipugsi, M. Miranda, and J. Varela-Aldas, “Application for Control and Monitoring of Grow Beds Using IoT,” in *2023 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology, IRASET 2023*, Institute of Electrical and Electronics Engineers Inc., 2023. doi: 10.1109/IRASET57153.2023.10152993.
 - [16] G. P. Pereira, M. Z. Chaari, and F. Daroge, “IoT-Enabled Smart Drip Irrigation System Using ESP32,” *Internet of Things*, vol. 4, no. 3, pp. 221–243, Sep. 2023, doi: 10.3390/iot4030012.
 - [17] A. Professor, “This work is licensed under a Creative Commons Attribution 4.0 International License Smart farming based on IoT monitoring system,” *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering*, vol. 9, pp. 2321–5526, 2021, doi: 10.17148/IJIREEICE.2021.9303.
 - [18] N. H. Numbi, S. Mbuyu, and T. S. Hlahlele, “Development of an ESP32 Smart and Safe Outdoor Plant Watering System,” in *Proceedings of the 32nd Southern African Universities Power Engineering Conference, SAUPEC 2024*, Institute of Electrical and Electronics Engineers Inc., 2024. doi: 10.1109/SAUPEC60914.2024.10445039.
 - [19] B. E. A. Belal, M. A. El-Kenawy, ; Sakina, I. I. Ismail, and A. M. Abd El-Hameed, “Effect of Intercropping of Thompson Seedless Grapevines with some Medicinal Plants on Vine Nutritional Status, Yield, Berry Quality and the Microbiological Activity of the Soil,” 2017.
 - [20] H. Wu, W. Li, J. Liu, and T. Zhang, “Design of an integrated temperature and humidity sensor based on high dynamic range utilization rate ADC,” *IEICE Electronics Express*, vol. xx, No.xx, p. 1, doi: 10.1587/elex.XX.XXXXXXXX.
 - [21] H. Wu, W. Li, J. Liu, and T. Zhang, “Design of an integrated temperature and humidity sensor based on high dynamic range utilization rate ADC,” *IEICE Electronics Express*, vol. xx, No.xx, p. 1, doi: 10.1587/elex.XX.XXXXXXXX.
 - [22] S. Majumder et al., “Assessing Low-cost Capacitive Soil Moisture Sensors: Accurate, Affordable, and IoT-ready Solutions for Soil Moisture Monitoring,” *International Journal of Environment and Climate Change*, vol. 13, no. 11, pp. 2233–2242, Nov. 2023, doi: 10.9734/ijecc/2023/v13i113386.
 - [23] “perancangan-sistem-sensor-pemonitor-lingkungan-berbasis-3m9rqlcebj”.

- [24] G. García Navarrete, K. Gpe Rico Soto, and M. Gilberto García Navarrete, "SENSORES DE BAJO COSTO PARA EL MONITOREO DE CALIDAD DEL AIRE Low cost sensors for air quality measurement CTS Epistemus", [Online]. Available: www.epistemus.uson.mx
- [25] I. Gusti Agung Ngurah Maisha Putra *et al.*, "Desember 2023 I Gusti Agung Ngurah Maisha Putra."
- [26] N. Saha, G. Brunetti, M. N. Armenise, and C. Ciminelli, "A Compact, Highly Sensitive pH Sensor Based on Polymer Waveguide Bragg Grating," *IEEE Photonics J*, vol. 15, no. 2, Apr. 2023, doi: 10.1109/JPHOT.2023.3242820.
- [27] D. Harianto, H. S. Bintang, A. Ardiyanto, and V. L. D. Widyawan, "Development and Evaluation of an ESP32-based Temperature and Humidity Control Unit for Textile Storage," *International Journal of Engineering Continuity*, vol. 4, no. 1, pp. 1–19, Nov. 2024, doi: 10.58291/ijec.v4i1.309.
- [28] A. D'Ausilio, "Arduino: A low-cost multipurpose lab equipment," *Behav Res Methods*, vol. 44, no. 2, pp. 305–313, Jun. 2012, doi: 10.3758/s13428-011-0163-z.
- [29] N. M. S. A. Shuhaimi, C. C. Chew, K. G. Tay, and K. S. Tee, "Smart Irrigation Monitoring and Controlling System with the Internet of Things (IoT)," in *ICFTSS 2024 - International Conference on Future Technologies for Smart Society*, Institute of Electrical and Electronics Engineers Inc., 2024, pp. 43–47. doi: 10.1109/ICFTSS61109.2024.10691362.
- [30] M. Khaery *et al.*, "Design of Air Pressure Measuring Devices Using a Barometric Pressure 280 (BMP280) (Miftahul Khaery, dkk)."
- [31] S. Majumder *et al.*, "Assessing Low-cost Capacitive Soil Moisture Sensors: Accurate, Affordable, and IoT-ready Solutions for Soil Moisture Monitoring," *International Journal of Environment and Climate Change*, vol. 13, no. 11, pp. 2233–2242, Nov. 2023, doi: 10.9734/ijecc/2023/v13i113386.
- [32] M. I. A. Shiddiqy and S. Sunardi, "Performance Analysis of LDR, Photodiode, and BH1750 Sensors for Sunlight Intensity Measurement in Open Areas," *Signal and Image Processing Letters*, vol. 6, no. 1, pp. 11–26, Jun. 2024, doi: 10.31763/simple.v6i1.96.