

DAFTAR PUSTAKA

- [1] S. Yadav, P. Mehta, A. Singh, and S. Yadav, "Advancements in Fish Harvesting Technology: Toward Sustainable Fisheries Management 20," p. 298, May 2024, Accessed: May 29, 2024. [Online]. Available: <https://www.researchgate.net/publication/380036227>
- [2] F. Rizal, G. S. Santyadiputra, and G. Aditra Pradnyana, "Prototype of Water Quality Monitoring for Grouper Fish Pond Based on Microcontroller Arduino," *International Journal of Natural Science and Engineering*, vol. 5, pp. 77–86, 2021, doi: 10.23887/ijnse.v5i2.
- [3] M. K. Nagarajan, N. Janakiraman, C. Balasubramanian, and A. Professor, "A Literature Survey on Wireless Sensor Networks," *IJISSET-International Journal of Innovative Science, Engineering & Technology*, vol. 6, no. 5, pp. 301–302, 2019, [Online]. Available: www.ijiset.com
- [4] Y. Erdani, "DEVELOPING MULTIFUNCTIONAL SERIAL-PARALLEL DATA COMMUNICATION INTERFACE FOR PC-BASED CONTROL SYSTEM," *Seminar Nasional Aplikasi Teknologi Informasi*, pp. 103–105, 2006.
- [5] J. Ibrahim, D. Agadi Tonga, T. Agadi Danladi, and M. Aderinola, "COMPARATIVE ANALYSIS BETWEEN WIRED AND WIRELESS TECHNOLOGIES IN COMMUNICATIONS: A REVIEW," 2017. [Online]. Available: <http://iraj.in>
- [6] R. P. Tidke, P. S. Uttarwar, D. S. Dandwate, and U. J. Tupe, "A Literature Review On: Wireless Technologies From 0G to 7G," 2020. [Online]. Available: <https://www.researchgate.net/publication/356776158>
- [7] B. B. Sefawdin, "Identification of possible causes of fish death in Lake Lake Kabo," *International Journal of Fisheries and Aquaculture*, vol. 11, no. 2, pp. 29–36, Feb. 2019, doi: 10.5897/ijfa2018.0721.
- [8] S. Shukla, M. K M, M. C R, and S. Naik, "COMPARISON OF WIRELESS NETWORK OVER WIRED NETWORK AND ITS TYPE," *International*

- Journal of Research -GRANTHAALAYAH, vol. 5, no. 4RACSIT, pp. 14–20, Apr. 2017, doi: 10.29121/granthaalayah.v5.i4racsit.2017.3343.
- [9] Febriana Sulistya Pratiwi, “Angka Konsumsi Ikan RI Naik Jadi 56,48 Kg/Kapita pada 2022,” DataIndonesia.id.
- [10] Martya Rizky, “KKP Targetkan Produksi Perikanan Capai 30,37 Juta Ton di 2023,” CNBC Indonesia.
- [11] Nahla A Aljalil, I. Hasan, N. Abdul, J. Salih, I. J. Hasan, and N. I. Abdulkhaleq, “Design and implementation of a smart monitoring system for water quality of fish farms,” Indonesian Journal of Electrical Engineering and Computer Science, vol. 14, no. 1, pp. 45–52, 2019, doi: 10.11591/ijeecs.v14.i1.pp45-52.
- [12] M. Alselek, J. M. Alcaraz-Calero, J. Segura-Garcia, and Q. Wang, “Water IoT Monitoring System for Aquaponics Health and Fishery Applications,” Sensors, vol. 22, no. 19, Oct. 2022, doi: 10.3390/s22197679.
- [13] R. Ismail, K. Shafinah, and K. Latif, “A Proposed Model of Fishpond Water Quality Measurement and Monitoring System based on Internet of Things (IoT),” in IOP Conference Series: Earth and Environmental Science, IOP Publishing Ltd, Aug. 2020. doi: 10.1088/1755-1315/494/1/012016.
- [14] Preetham K., Mallikarjun B. C., K. Umesha, Mahesh F. M., and Neethan S., “Aquaculture monitoring and control system: An IoT based approach,” International Journal of Advance Research, Ideas and Innovations in Technology, vol. 5, no. 2, pp. 1168–1170, 2019, [Online]. Available: www.IJARIIT.com
- [15] R. P, S. Edward, S. S, and V. G, “IoT Based Smart Monitoring System for Fish Pond,” European Alliance for Innovation n.o., Aug. 2022. doi: 10.4108/eai.14-5-2022.2318887.
- [16] A. Ikhsan Syamsuri, M. Wahyu Alfian, V. Phaza Muharta, A. Taufiq Mukti, and dan Woro Hastuti Satyantini, “The Grow out of nilem fish (*Osteochilus hasselti*) In ‘Balai Pengembangan dan Pemacuan Stok Ikan Gurame dan Nilem (BPPSIGN) Tasikmalaya, Jawa Barat.’”

- [17] Madinawati, Serdiati Novalina, and Yoel, “PEMBERIAN PAKAN YANG BERBEDA TERHADAP PERTUMBUHAN DAN KELANGSUNGAN HIDUP BENIH IKAN LELE DUMBO (*Clarias gariepinus*)”.
- [18] S. Hadisusanto and D. S. Suryaningsih, “*Puntius orphoides Valenciennes*, 1842: Kajian Ekologi dan Potensi untuk Domestikasi *Puntius orphoides Valenciennes*, 1842: Ecological Studies and Domestic Potential,” vol. 16, no. 2, 2011.
- [19] S. Doge, S. Vallabhbhai, R. Sonawane, and R. Vatti, “International Journal of Research Study of Wi-Fi Signal Strength Measurement and it's Optimization,” Article in International Journal of Research, vol. 04, no. 17, pp. 2317–2318, 2017, [Online]. Available: <https://edupediapublications.org/journals>
- [20] “Lab 4c: Communications-SPI Serial Protocols 1 Objectives.” [Online]. Available: www.store.digilent.com
- [21] “Lab 4d: Communications-I 2 C Serial Protocols.” [Online]. Available: www.store.digilent.com
- [22] B. Dwinanto and B. Yulianto, “Rancang Bangun Repeater Lora Rfm95 Dengan Frekuensi 915 Mhz Berbasis Esp32,” *Cerdika: Jurnal Ilmiah Indonesia*, vol. 4, no. 2, pp. 109–125, Feb. 2024, doi: 10.59141/cerdika.v4i2.752.
- [23] C. Darma Saputra, “ANALISIS KETERLAMBATAN GERAK LENGAN ROBOT MANIPULATOR BERBASIS INTERNET OF THINGS,” 2024.
- [24] K. , R. Hammam N. and H. Isnianto N., “ANALISIS PERFORMA BLUETOOTH PADA SISTEM DEVICE REMINDER BERDASARKAN PENGUKURAN JARAK DAN RECEIVED SIGNAL STRENGTH INDICATOR,” *Journal of Internet and Software Engineering(JISE)*, vol. 2, no. 1, pp. 2–3, Jul. 2021.
- [25] ETSI TS 101 329-2 V1.1.1, “Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); End to End Quality of Service in TIPHON Systems; Part 2: Definition of Quality of Service (QoS) Classes,” 2000, Accessed: Aug. 08, 2024. [Online]. Available:

https://www.etsi.org/deliver/etsi_ts/101300_101399/10132902/01.01.01_60/ts_10132902v010101p.pdf

- [26] L. Koval, J. Vaňuš, and P. Bilík, “Distance Measuring by Ultrasonic Sensor,” *IFAC-PapersOnLine*, vol. 49, no. 25, pp. 153–158, 2016, doi: <https://doi.org/10.1016/j.ifacol.2016.12.026>.
- [27] J. Mankar, C. Darode, K. Trivedi, M. Kanoje, and P. Shahare, “REVIEW OF I2C PROTOCOL,” *International Journal of Research in Advent Technology*, vol. 2, no. 1, 2014, [Online]. Available: <http://www.ijrat.org>
- [28] T. Addabbo, A. Fort, M. Mugnaini, S. Parrino, A. Pozzebon, and V. Vignoli, “Using the I2C bus to set up Long Range Wired Sensor and Actuator Networks in Smart Buildings,” in *2019 4th International Conference on Computing, Communications and Security (ICCCS)*, 2019, pp. 1–8. doi: 10.1109/CCCS.2019.8888085.
- [29] A. P. Wirawan and H. Nugroho, “Perancangan Node Sensor Nirkabel BLE Bertenaga Baterai menggunakan ESP32 untuk Aplikasi Pertanian Cerdas,” *Telekontran : Jurnal Ilmiah Telekomunikasi, Kendali dan Elektronika Terapan*, vol. 11, no. 1, pp. 12–22, May 2023, doi: 10.34010/telekontran.v11i1.9607.
- [30] M. Rizal, P. Negeri, U. Pandang, M. S. Hadis, R. Angriawan, and A. Arifin, “EVALUASI KINERJA BLUETOOTH PADA MODUL ESP32 DI LINGKUNGAN LINE OF SIGHT Article in Journal of Embedded Systems Security and Intelligent Systems · April 2020 CITATIONS 4 READS 12 4 authors, including: EVALUASI KINERJA BLUETOOTH PADA MODUL ESP32 DI LINGKUNGAN LINE OF SIGHT,” *Journal of Embedded Systems Security and Intelligent Systems*, vol. 01, no. 1, pp. 43–45, 2020, [Online]. Available: <https://ojs.unm.ac.id/JESSI/index>
- [31] P. Rendeiro, J. Leite, L. Silva, M. Silva, and L. Ramalho, “Connectivity Evaluation of ESP32 in Outdoor Scenarios.”
- [32] N. K. R. Hammam and N. H. Isnianto, “ANALISIS PERFORMA BLUETOOTH PADA SISTEM DEVICE REMINDER BERDASARKAN

- PENGUKURAN JARAK DAN RECEIVED SIGNAL STRENGTH INDICATOR,” *Journal of Internet and Software Engineering (JISE)*, vol. 2, no. 1, pp. 1–2, Jul. 2021.
- [33] H. Jurnal, E. Ryansyah, A. Susilo, and Y. Irawan, “JURNAL INFORMATIKA DAN TEKNOLOGI KOMPUTER SYSTEMATIC LITERATURE REVIEW (SLR): PENYALAHGUNAAN WIFI PUBLIK TERHADAP ORANG AWAM YANG ADA DI INDONESIA,” *Maret*, vol. 3, no. 1, pp. 1–13, 2023.
- [34] P. Pallavi*, V. Priyanka, and Dr. Y. P. Sai, “Design & Verification of Serial Peripheral Interface (SPI) Protocol,” *International Journal of Recent Technology and Engineering (IJRTE)*, vol. 8, no. 6, pp. 793–796, Mar. 2020, doi: 10.35940/ijrte.F7356.038620.
- [35] A. Applications Journal, “Analog Applications Journal, 4Q 2011,” 2011. [Online]. Available: www.ti.com/medical
- [36] C. Zhuang, “Comparison And Selection of Commonly Used Communication Protocols in Measurement and Control Instruments,” 2024.
- [37] M. S. D. Nubatonis, H. F. J. Lami, and S. I. Pella, “KUALITAS SINYAL DAN KINERJA JARINGAN DATA ANTAR LORA GATEWAY RFM95,” *Jurnal Ilmiah Flash*, vol. 9, no. 1, p. 37, Jun. 2023, doi: 10.32511/flash.v9i1.1071.
- [38] S. Yason, Sudirman, and A. Yunus, “ANALISIS PERFORMA WEBSITE SCLEAN MENGGUNAKAN PINGDOM TOOLS DAN PAGE SPEED INSIGHTS,” *Jurnal Ilmu Komputer KHARISMA.TECH*, vol. 17, no. 1, pp. 113–124, Mar. 2022, [Online]. Available: <https://tools.pingdom.com>
- [39] E. Ibarrola, F. liberal, I. Taboada, and R. Ortega, “Web QoE Evaluation in Multi-agent Networks: Validation of ITU-T G.1030,” in *2009 Fifth International Conference on Autonomic and Autonomous Systems*, 2009, pp. 289–294. doi: 10.1109/ICAS.2009.40.
- [40] K. W. Choi, L. Ginting, P. A. Rosyady, A. A. Aziz, and D. I. Kim, “Wireless-Powered Sensor Networks: How to Realize,” *IEEE Trans Wirel Commun*, vol. 16, no. 1, pp. 221–234, Jan. 2017, doi: 10.1109/TWC.2016.2621766.

- [41] Purohit A. Amrut, Ahmed R. Muhammed, and Reddy S. V. R., “Area Optimization using Structural Modeling for Gate Level Implementation of SPI for Microcontroller,” *International Journal of Innovative Technology and Exploring Engineering*, vol. 9, no. 1, pp. 3365–3371, Nov. 2019, doi: 10.35940/ijitee.A4588.119119.
- [42] M. E. Yüksel, “Power consumption analysis of a Wi-Fi-based IoT device,” *Electrica*, vol. 20, no. 1, pp. 62–70, Jan. 2020, doi: 10.5152/ELECTRICA.2020.19081.