

DAFTAR PUSTAKA

- Abba, S., Namkusong, J. W., Lee, J., Sensors, M. L. C.-, & 2019, undefined. (2019). Design and performance evaluation of a low-cost autonomous sensor interface for a smart IoT-based irrigation monitoring and control system. *Mdpi.ComS Abba, J Wadumi Namkusong, JA Lee, M Liz CrespoSensors, 2019•mdpi.Com.* <https://www.mdpi.com/1424-8220/19/17/3643>
- Abiyu, J., Ismail, K. M., Ahmad Kosasih, dan, Penerangan Indonesia Curug Jl Raya PLP Curug, P., Wetan, S., Legok, K., Tangerang, K., Kunci -Suhu, K., & Dht, S. (2024). Rancang Bangun Sistem Monitoring Serta Kendali Suhu dan Kelembaban pada Ruang Server Berbasis Arduino. *Jurnal Arus Elektro Indonesia, 10(1), 1–5.* <https://doi.org/10.19184/JAEI.V10I1.37054>
- Adiwilaga, A., Firmansyah, R. M., Irzia, R., & Muthmainah, F. (2024). Prototype Design of Automatic Irrigation System Based on Soil Moisture and Temperature Using Mamdani Fuzzy Logic Controller. *Ejournal.Upi.EduA Adiwilaga, RM Firmansyah, RIF MuthmainahJournal of Computer Engineering, Electronics and Information Technology•ejournal.Upi.Edu.* <https://doi.org/10.17509/coelite.v3i2.76025>
- Alomar, B., Technology, A. A.-2018 F. H. I., & 2018, undefined. (2018). A smart irrigation system using IoT and fuzzy logic controller. *Ieeexplore.Ieee.Org.* <https://ieeexplore.ieee.org/abstract/document/8649531/>
- Amstrabena, R., DTE, I. P.-T. A., ITS, S., & 2018, undefined. (2018). Rancang Bangun Modul Sistem Otomasi Bangunan Berbasis Konsep Internet of Things. *Repository.Its.Ac.IdR Amstrabena, ID PurwantoTugas Akhir DTE, Surabaya: ITS, 2018•repository.Its.Ac.Id.* https://repository.its.ac.id/52828/1/07111440000201-Undergraduate_Theses.pdf
- Ananda, A. S. P., Munadhif, I. M. I., Isa, I. R., Ryan, R. Y. A., & Rini, R. I. (2023). Integrasi Sistem Komunikasi Modbus TCP/IP pada PLC Siemens S7-1200, ESP32, dan HMI. *Jurnal Elektronika Dan Otomasi Industri, 10(2), 234–244.* <https://doi.org/10.33795/ELKOLIND.V10I2.3254>
- Baskoro, F., Nugroho, H., ... M. Z.-J. T., & 2021, undefined. (2021). Rancang Bangun Pintu Air Otomatis Berbasis Kontroller Logika Fuzzy. *F Baskoro, HW*

- Nugroho, MS Zuhrie, N Kholis.
<https://ejournal.unesa.ac.id/index.php/JTE/article/view/37362>
- Gotama, J., Fernando, Y., Rekayasa, D. P.-J. Inform. dan, & 2021, undefined. (2021). Pengenalan Gedung Universitas Teknokrat Indonesia Berbasis Augmented Reality. *Academia.Edu* *JD Gotama, Y Fernando, D Pasha* *J. Inform. Dan Rekayasa Perangkat Lunak, 2021* • *academia.Edu*.
<https://www.academia.edu/download/85431691/711-1878-1-PB.pdf>
- Herath, H., Ariyathunge, S., Development, H. P.-, & 2020, undefined. (2020). Development of a data acquisition and monitoring system based on MODBUS RTU communication protocol. *Researchgate.Net* *H Herath, S Ariyathunge, H Priyankara* *Development, 2020* • *researchgate.Net*.
https://www.researchgate.net/profile/Kasun-Herath/publication/342513211_Development_of_a_Data_Acquisition_and_Monitoring_System_Based_on_MODBUS_RTU_Communication_Protocol/links/5ef8add6299bf18816edf2dc/Development-of-a-Data-Acquisition-and-Monitoring-System-Based-on-MODBUS-RTU-Communication-Protocol.pdf
- Ibrahim, F., Konditi, D., Technol, S. M.-Int. J. Eng. Res., & 2018, undefined. (2018). Smart irrigation system using a fuzzy logic method. *Academia.Edu* *F S Ibrahim, D Konditi, S Musyoki* *Int. J. Eng. Res. Technol, 2018* • *academia.Edu*.
https://www.academia.edu/download/76339331/ijertv11n9_07.pdf
- Insanudin, I. (2025). Internet Of Things (Iot)-Based Prototype For Monitoring Water Level And Turbidity In Water Tanks. *Journal Of Information System And Artificial Intelligence*, 5(2), 342–351. <https://doi.org/10.26486/JISAI.V6I2.219>
- Kaidi, H. M., Ahmad, N., Dziyauddin, R. A., Mohamed, N., Latiff, L. A., Usman, S., Ahmad, R., & Sarip, S. (2020). Internet of Things: A Monitoring and Control System for Rockmelon Farming. *International Journal of Integrated Engineering*, 12(6), 55–61. <https://doi.org/10.30880/ijie.2020.12.06.007>
- Kelechi, A., Alsharif, M., ... A. A.-, Continua, M. &, & 2021, undefined. (2021). Design and Implementation of a Low-Cost Portable Water Quality Monitoring System. *Academia.Edu* *AH Kelechi, MH Alsharif, AC Anya, MU Bonet, SA Uyi, P Uthansakul, J Nebhen, AA Aly* *Computers, Materials & Continua, 2021* • *academia.Edu*.
https://www.academia.edu/download/109048483/TSP_CMC_18686.pdf

- Kurniawan, R., & Rozak, O. (2024). Real-time Analysis of Inverter Performance via SCADA Haiwell Online Monitoring. *Academia.Edu*. <https://www.academia.edu/download/119506031/3451.pdf>
- Mondamina, N. W., Dwi Wardana, O., Studi Teknologi Pengolahan Sawit, P., & Teknologi Sains Bandung, I. (2022). Perancangan Water Level Monitoring pada Raw Water Tank dengan Sensor Ultrasonik Berbasis Nodemcu di Sungai Kupang Mill. *V1.Itsb.Ac.Id.* <https://v1.itsb.ac.id/journal/index.php/JVTI/article/view/304/0>
- Mulyadi, I., ... R. M.-J. of A., & 2021, undefined. (2021). Modul Komunikasi Modbus RTU over RS485 Berbasis Arduino. *Jurnal.Polibatam.Ac.IdIH Mulyadi, R Mahdaliza, AG Darmoyono, S Prayoga, K KamarudinJournal of Applied Electrical Engineering, 2021•jurnal.Polibatam.Ac.Id.* <https://doi.org/10.1002/aic.10279>
- Muntasiroh, L., ... A. S.-J. J. of, & 2024, undefined. (2024). Design and Build a Water Pump Control System Using a Monitoring System Based on Telegram Communication. *Ejurnal.Ung.Ac.IdL Muntasiroh, A Solichan, M IkhwanuddinJambura Journal of Electrical and Electronics Engineering, 2024•ejurnal.Ung.Ac.Id,* 144. <https://ejurnal.ung.ac.id/index.php/jjeee/article/viewFile/24604/8952>
- Nor, S., Teknik Elektro, J., Studi, P. D., Negeri Banjarmasin, P., & Jl Brigjen Basri Kayutangi, B. H. (2024). Integrasi LabVIEW Dengan Arduino Melalui Modbus RTU Untuk Sistem Monitoring Dan Kontrol. *Electrician.Unila.Ac.IdS NorElectrician: Jurnal Rekayasa Dan Teknologi Elektro, 2024•electrician.Unila.Ac.Id,* 18(03). <https://electrician.unila.ac.id/index.php/ojs/article/view/2716>
- Oktavia, R. (2024). *SISTEM PENGENDALIAN POMPA AIR OTOMATIS DAN SISTEM MONITORING KEKERUHAN AIR PADA TANDON AIR BERBASIS INTERNET OF THINGS (IOT)*. <http://repository.unj.ac.id/id/eprint/46645>
- Reza Fahlevi, M., Sistem Pendekripsi Banjir, P., & Gunawan, H. (2020). Perancangan Sistem Pendekripsi Banjir Berbasis Internet Of Things. *ScholarArchive.OrgMR Fahlevi, H GunawanIT Journal, 2020•scholarArchive.Org*. <https://scholararchive.org/work/lo4vg6zw5gvdaww3y3fdqysae/access/wayba>

- ck/http://e-journal.potensi-
utama.ac.id/ojs/index.php/ITJournal/article/download/1021/1461
- Santoso, L., Sunarto, B., ... R. F.-I. J. I., & 2024, undefined. (2024). Perancangan Alat Pendekripsi Kualitas Udara Dan Sistem Filter Udara Dengan Antarmuka Visual HMI Nextion. *Ojs.Sttexmaco.Ac.IdLH Santoso, B Sunarto, R Fitri, I PermatasariINFOTEX: Jurnal Ilmiah Bidang Ilmu Teknik, 2024•ojs.Sttexmaco.Ac.Id, 2(2), 2964–5352.*
<https://ojs.sttexmaco.ac.id/index.php/infotex/article/view/79>
- Saputri, F. R., Linelson, R., Salehuddin, M., Nor, D. M., & Ahmad, M. I. (2025). Design and development of an irrigation monitoring and control system based on blynk internet of things and thingspeak. *Journals.Plos.OrgFR Saputri, R Linelson, M Salehuddin, DM Nor, MI AhmadPloS One, 2025•journals.Plos.Org, 20(4 April).* <https://doi.org/10.1371/JOURNAL.PONE.0321250>
- Setiabudi, A., Harimurti, R., ... B. S.-B. J. of, & 2024, undefined. (2024). Design and Development of Voltage, Current and Frequency Monitoring on 3-Phase Electrical Panel Boxes for Audio Sound Systems Using ESP32 Based Ubidots. *Jurnal.Unipasby.Ac.IdA Setiabudi, R Harimurti, B Suprianto, PD WidayakaBEST: Journal of Applied Electrical, Science, & Technology, 2024•jurnal.Unipasby.Ac.Id.*
<https://jurnal.unipasby.ac.id/index.php/best/article/view/8830>
- Setiawan, M. (2013). *Kontrol Kecepatan Motor DC Dengan Metode PID Menggunakan Visual Basic 6.0 dan Mikrokontroler ATmega 16.*
<http://repository.ub.ac.id/141858/>
- Singh, A., Tariq, T., Ahmer, M., Sharma, G., Energies, P. B.-, & 2022, undefined. (2022). Intelligent control of irrigation systems using fuzzy logic controller. *Mdpi.Com.* <https://www.mdpi.com/1996-1073/15/19/7199>
- Surakarta, O. N.-P. S. N. A., & 2023, undefined. (2024). Analisis Baudrate Komunikasi Sensor NPK Dengan Mikrokontroller Arduino Mega 2560 menggunakan Modul Max485 TTL. *Ojs.Amikomsolo.Ac.IdO NurProsiding Seminar Nasional Amikom Surakarta, 2023•ojs.Amikomsolo.Ac.Id.*
<https://ojs.amikomsolo.ac.id/index.php/semnasa/article/view/131>
- Suryatini, F., Ilman Fauzandi, F., Teknik Otomasi Manufaktur dan Mekatronika, J., & Manufaktur Bandung Jl, P. (2019). Implementasi Sistem Kontrol Irrigasi Tetes

- Menggunakan Konsep IoT Berbasis Logika Fuzzy Takagi-Sugeno. *Desember*, 4(1), 27. <https://doi.org/10.31544/jtera.v4.i1.2019.115-124>
- Sutikno, T., Wahyudi, A. N., Wahono, T., Arsadiando, W., & Purnama, H. S. (2024). Smart irrigation system using node microcontroller unit ESP8266 and Ubidots cloud platform. *Computer Science and Information Technologies*, 5(2), 168–175. <https://doi.org/10.11591/CSIT.V5I2.P168-175>
- Suwardono, A., Eka Prahesti, F., Merita Indrawati, E., & Abd Jalil Ashofa, M. (2024). IoT Based Catfish Farm Monitoring with ESP32 Microcontroller and DS18B20 Sensor. *Ejournal.Undiksha.Ac.IdA Suwardono, FE Prahesti, EM Indrawati, M Abd JalilJurnal Sains Dan Teknologi, 2024•ejournal.Undiksha.Ac.Id, 13, 508–516.* <https://doi.org/10.23887/jstundiksha.v13i3.85996>
- Vallejo-Gómez, D., Osorio, M., & Hincapié, C. A. (2023). Smart Irrigation Systems in Agriculture: A Systematic Review. *Agronomy*, 13(2). <https://doi.org/10.3390/AGRONOMY13020342>
- Yin, L., Wang, F., Han, S., Li, Y., Sun, H., ... Q. L.-A. laser, & 2016, undefined. (2016). Application of drive circuit based on L298N in direct current motor speed control system. *Spiedigitallibrary.OrgL Yin, F Wang, S Han, Y Li, H Sun, Q Lu, C Yang, Q WangAdvanced Laser Manufacturing Technology, 2016•spiedigitallibrary.Org*. <https://doi.org/10.1117/12.2246555.SHORT>
- Yusuf, A., ... A. T.-... of S. of, & 2023, undefined. (2023). Media Pembelajaran Sensor Berbasis Arduino Uno Untuk Pembelajaran Mikrokontroler Pemula. *Jurnal.Politeknik-Kebumen.Ac.IdA Yusuf, A Tafrikhatin, J Sumarah, NN HudaifahJASATEC: Journal of Students of Automotive, Electronic, 2023•jurnal.Politeknik-Kebumen.Ac.Id.* <https://www.jurnal.politeknik-kebumen.ac.id/jasatec/article/view/1403>
- Zhou, Y., Che, B., & Yuan, C. (2018). The design and analysis of a high-speed circular arc gear pump journal bearing. *Journals.Sagepub.ComY Zhou, B Che, C YuanAdvances in Mechanical Engineering, 2018•journals.Sagepub.Com, 10(12), 2018.* <https://doi.org/10.1177/1687814018819288>