

DAFTAR PUSTAKA

- [1] R. Sitorus, “Analisa Permasalahan & Solusi Lampu Penerangan Jalan Umum (LPJU) di,” Repositori Institusi Universitas Sumatera Utara, 2017. [Online]. Available: <https://repositori.usu.ac.id/handle/123456789/20210>.
- [2] InterLIGHT, ““Everything you need to know about smart street lighting,” 26 Juni 2020. [Online]. Available: <https://intelilight.eu/smart-street-lighting/#street-lighting-control-systems>.
- [3] S. Lewis, “what is smart streetlight?,” TechTarget, Desember 2019. [Online]. Available: <https://www.techtarget.com/iotagenda/definition/smart-streetlight>.
- [4] IEA, “Global electricity consumption by lighting in the Net Zero Scenario, 2010-2030, IEA. Licence: CC BY 4.0,” IEA, 22 September 2022. [Online]. Available: <https://www.iea.org/data-and-statistics/charts/global-electricity-consumption-by-lighting-in-the-net-zero-scenario-2010-2030>.
- [5] S. O. SARI, “Perancangan dan Implementasi Prototipe Sistem Monitoring Kondisi Lampu Penerangan Jalan Berbasis Mikrokontroler,” *OpenLibrary Telkom*, 2017.
- [6] R. P. Pramana Saoni Aprilian, “Sistem Monitoring Kelembaban Suhu Dan Cahaya Pada Tanaman Hidroponik Menggunakan Aplikasi Blynk,” *JURNAL MAHASISWA BINA INSANI*, vol. 6, no. 1, pp. 1-10, 2021.
- [7] Cakrawala96, “Penjelasan Lumen dan Lux pada Lampu - Gesainstech,” Gesainstech, 5 Maret 2023. [Online]. Available: <https://www.gesainstech.com/2023/03/perbedaan-lumen-lux-candela-pengertian-penjelasan-lengkap.html>. [Diakses 24 Juli 2023].
- [8] D. P. K. Pringsewu, “PERBAIKAN DAN PEMELIHARAAN PENERANGAN JALAN UMUM,” 27 januari 2020. [Online]. Available: <https://dishub.pringsewukab.go.id/detailpost/perbaikan-dan-pemeliharaan-penerangan-jalan-umum#:~:text=Lampu%20jalan%20atau%20dikenal%20juga,malam%20hari%2C%20sehingga%20dapat%20meningkatkan>. [Diakses 13 Agustus 2023].

- [9] S. Rachmahyanti, “6 Fakta Menarik Penerangan Jalan Umum (PJU), dari Jenis Lampu hingga Waktu Nyala,” *Okezone Economy*, 25 July 2022. [Online]. Available: <https://economy.okezone.com/read/2022/07/25/320/2635822/6-fakta-menarik-penerangan-jalan-umum-pju-dari-jenis-lampu-hingga-waktu-nyala?page=2>. [Diakses 11 December 2022].
- [10] S. A. R. A. N. A. M. Andriana, “Perancangan Sistem Telemetri Data Meteorologi Pertanian dengan Menggunakan LoRa secara Realtime,” *TIARSIE Vol.17 No.4*, vol. 4, pp. 2623-2391, 2020.
- [11] C. Staff, “What is ESP32, how it works and what you can do with ESP32? - Circuit Schools,” *Circuit Schools*, 11 Januari 2022. [Online]. Available: <https://www.circuitschools.com/what-is-esp32-how-it-works-and-what-you-can-do-with-esp32/>. [Diakses 24 Juli 2023].
- [12] Badr Interactive, “Firebase: Pengertian, Jenis, Fungsi, dan Cara Kerjanya - Badr Interactive,” *Badr Interactive*, 7 Juni 2022. [Online]. Available: <https://badr.co.id/firebase-adalah/>. [Diakses 24 Juli 2023].
- [13] J. Sitepu, “mikroavr,” 7 Oktober 2020. [Online]. Available: <https://mikroavr.com/macam-macam-sensor-arus/>. [Diakses 13 Agustus 2023].
- [14] W. W. M. R. A. Q. Tukadi, “Monitoring Pemakaian Daya Listrik Secara Realtime Berbasis Internet,” *Seminar Nasional Sains dan Teknologi Terapan VII 2019*, pp. 2685-6875, 2019.
- [15] A. B. D. P. K. F. Muhammad, “Analisis Kinerja Protokol LoRaWAN untuk Transmisi Data pada Skenario,” *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. 3, no. 9, pp. 9054-9060, 2019.
- [16] Climate Change Knowledge Portal For Development Practitioners and Policy Makers, “Indonesia - Climatology | Climate Change Knowledge Portal,” *Climate Change Knowledge Portal*, 2020. [Online]. Available: [https://climateknowledgeportal.worldbank.org/country/indonesia/climate-data-historical#:~:text=The%20cities%20of%20Jakarta%2C%20Ujung,millimeters%20\(m m\)%20per%20month..](https://climateknowledgeportal.worldbank.org/country/indonesia/climate-data-historical#:~:text=The%20cities%20of%20Jakarta%2C%20Ujung,millimeters%20(m m)%20per%20month..) [Diakses 5 2023].

- [S. L. M. H. N. S. O. G. W. S. J. S. J. I. K. Kyungki Kim, “Feasibility of LoRa for
17] Smart Home Indoor Localization,” *Appl. Sci.*, vol. 11, no. 415, 2021.
- [R. Mischianti, “ESP32 DevKitC v4 high resolution pinout and specs,” 10 Februari
18] 2023. [Online]. Available: <https://mischianti.org/2021/07/17/esp32-devkitc-v4-high-resolution-pinout-and-specs/>.
- [N. A. P. S. P. M. Djayus Nor Salim, “Sistem Keamanan Smart Door
19] LockMenggunakan E-KTP (Elektroknik Kartu Tanda Penduduk) Berbasis Internet of Things(IoT),” *GO INFOTECH: JURNAL ILMIAH STMIK AUB*, vol. 27, no. 2, pp. 196-206, 2021.
- [Y. A. I. A. H. Sahbuddin Abdul Kadir, “Kacamata Cerdas untuk Melihat Hasil
20] Pengukuran Tegangan Berbasis Mikrokontroler,” *Prosiding Seminar Nasional Teknik Elektro dan Informatika (SNTEI)*, pp. 300-304, 2021.
- [L. A. N. K. F. B. Faris Dawwas, “SISTEM MONITORING KETINGGIAN
21] CAIRAN INFUS DAN SUHU PADA PASIEN COVID-19 BERBASIS IoT ESP8266 DAN FIREBASE,” *Jurnal Teknik Elektro*, vol. 10, no. 3, pp. 741-747, 2021.
- [A. A. N. A. I. M. A. S. I Gede Andhika Putra, “Rancang Bangun Alat Monitoring
22] Kerusakan Lampu Penerangan Jalan Umum Berbasis Mikrokontroler dengan Notifikasi SMS,” *J-COSINE*, vol. 2, no. 2, pp. 90-99, 2018.
- [B. M. A. R. T. S. W. Anhar, “Perhitungan Lampu Penerangan Jalan Berbasis Solar
23] System,” *JURNAL SAINS TERAPAN*, vol. 4, no. 1, pp. 33-36, 2018.
- [Y. A. I. A. H. Sahbuddin Abdul Kadir, “Kacamata Cerdas untuk Melihat Hasil
24] Pengukuran Tegangan Berbasis Mikrokontroler,” *Prosiding Seminar Nasional Teknik Elektro dan Informatika (SNTEI)*, pp. 300-304, 2021.
- [K. Lukman Bachtiar, “PENGEMBANGAN TEKNOLOGI MOBILE UNTUK
25] SISTEM KASIR RUMAH MAKAN DI KOTA SAMPIT MENGGUNAKAN FIREBASE REALTIME DATABASE,” *JTIULM*, vol. 5, no. 2, pp. 57-66, 2020.
- [Firebase, “Firebase Hosting,” Firebase, [Online]. Available:
26] <https://firebase.google.com/docs/hosting>. [Diakses 12 4 2023].

- [S. A. Satriogi Putramulyo, “Prediksi Curah Hujan Bulanan Di Kota Samarinda
27] Menggunakan Persamaan Regresi Dengan Prediktor Data Suhu dan Kelembapan
Udara,” *EIGEN MATHEMATICS JOURNAL*, vol. 1, no. 2, pp. 13-16, 2018.
- [J. K. J. E. M. Ruchi Bhatnagar, “Candidate Surveys on Program Evaluation:
28] Examining Instrument Reliability, Validity and Program Effectiveness,” *American
Journal of Educational Research.*, vol. 2, no. 8, pp. 683-690, 2014.
- [Wenli, “Kanglight,” Kanglight, 5 Juli 2021. [Online]. Available:
29] <https://kanglight.com/how-much-does-a-street-light-cost-to-run/>. [Diakses 4 Agustus
2023].
- [D. L. Putri, “Daftar Tarif Listrik Per Kwh yang Berlaku Mulai April-Juni 2023,”
30] Kompas, 2 April 2023. [Online]. Available:
[https://www.kompas.com/tren/read/2023/04/02/141500765/daftar-tarif-listrik-per-
kwh-yang-berlaku-mulai-april-juni-2023](https://www.kompas.com/tren/read/2023/04/02/141500765/daftar-tarif-listrik-per-kwh-yang-berlaku-mulai-april-juni-2023). [Diakses 4 Agustus 2023].