

DAFTAR PUSTAKA

- [1] Kemalasari dan M. Rochmad, “Deteksi Kadar Oksigen Darah (SpO₂) Dan Detak Jantung Secara Non-Invasif Dengan Sensor Chip MAX30100,” *Jurnal Nasional Teknologi Terapan (JNTT)*, vol. 4, no. 1, Jun 2022, doi: 10.22146/jntt.v4i1.4804.
- [2] C. Shi *dkk.*, “The accuracy of pulse oximetry in measuring oxygen saturation by levels of skin pigmentation: a systematic review and meta-analysis,” *BMC Med*, vol. 20, no. 1, Des 2022, doi: 10.1186/s12916-022-02452-8.
- [3] P. S. Chen *dkk.*, “Pathophysiological implications of hypoxia in human diseases,” *J Biomed Sci*, vol. 27, no. 1, hlm. 1–19, Mei 2020, doi: 10.1186/s12929-020-00658-7.
- [4] D. Bagus, S. Budi, R. Maulana, dan H. Fitriyah, “Sistem Deteksi Gejala Hipoksia Berdasarkan Saturasi Oksigen dan Detak Jantung Menggunakan Metode Fuzzy Berbasis Arduino,” *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. 3, no. 2, hlm. 1925–1933, Feb 2019, doi: <http://j-ptiik.ub.ac.id>.
- [5] S. Hadiyoso dan A. Rizal, *Instrumentasi Biomedis berbasis PC*, no. Photoplethysmograph. Penerbit Gava Media, 2015.
- [6] S. Walzel, R. Mikus, V. Rafl-Huttova, M. Rozanek, T. E. Bachman, dan J. Rafl, “Evaluation of Leading Smartwatches for the Detection of Hypoxemia: Comparison to Reference Oximeter,” *Sensors*, vol. 23, no. 22, hlm. 9164, Nov 2023, doi: 10.3390/s23229164.
- [7] P. H. Charlton, P. A. Kyriacou, J. Mant, V. Marozas, P. Chowienczyk, dan J. Alastruey, “Wearable Photoplethysmography for Cardiovascular Monitoring,” *Proceedings of the IEEE*, vol. 110, no. 3, hlm. 355–381, Mar 2022, doi: 10.1109/JPROC.2022.3149785.
- [8] J. Park, H. S. Seok, S. S. Kim, dan H. Shin, “Photoplethysmogram Analysis and Applications: An Integrative Review,” *Front Physiol*, vol. 12, hlm. 1–23, Mar 2022, doi: 10.3389/fphys.2021.808451.
- [9] M. Haya, “Analisis User Interface (UI) dan User experience (UX) pada AIS UIN Jakarta menggunakan metode heuristic evaluation dan webuse dengan standar ISO 13407,” *Analisis User Interface (UI) dan User experience (UX) pada AIS UIN Jakarta menggunakan metode heuristic evaluation dan webuse dengan standar ISO 13407*, no. Analisis User Interface (UI) dan User experience (UX) pada AIS UIN Jakarta menggunakan metode

- heuristic evaluation dan webuse dengan standar ISO 13407, hlm. 1–134, Feb 2019.
- [10] G Fajar, “Pemantauan Detak Jantung Dan Saturasi Oksigen Dalam Darah Berbasis IoT Menggunakan Sensor MAX30102,” Thesis (S1), Universitas Sultan Ageng tirtayasa, Cilegon, 2023. Diakses: 22 November 2024. [Daring]. Tersedia pada: <https://eprints.untirta.ac.id/id/eprint/30726>
 - [11] T. V. Siahaan, V. Suhartono, dan D. A. Mayasari, “Rancang Bangun Monitoring Heart Rate dan SpO2 dengan Photoplethysmography (PPG),” *Applied Industrial Engineering Journal*, vol. 6, no. 2, hlm. 65–73, 2022, [Daring]. Tersedia pada: <http://publikasi.dinus.ac.id/index.php/aiej/indexv65>
 - [12] “ESP32WROOM32 Datasheet,” 2023. [Daring]. Tersedia pada: <https://www.espressif.com/en/support/download/documents>.
 - [13] S. Fadlilah, H. Rahil, dan F. Lanni, “Analisis Faktor Yang Mempengaruhi Tekanan Darah Dan Saturasi Oksigen Perifer (SpO₂),” *Jurnal Kesehatan Kusuma Husada-Januari*, vol. 11.no1, hlm. 1–30, Jan 2020, doi: <https://doi.org/10.34035/jk.v11i1.408>.
 - [14] V. Binene, D. Panauwe, R. Kauna, J. D. Vince, dan T. Duke, “Oxygen saturation reference ranges and factors affecting SpO₂ among children living at altitude,” *Arch Dis Child*, vol. 106, no. 12, hlm. 1160–1164, Des 2021, doi: 10.1136/archdischild-2020-321545.
 - [15] E. Agustina, E. R. Widasari, dan D. Syauqy, “Sistem Deteksi Hipoksia menggunakan Metode Decision Tree berdasarkan Detak Jantung dan Kadar Oksigen,” vol. 7, no. 1, hlm. 252–257, 2023, [Daring]. Tersedia pada: <http://j-ptiik.ub.ac.id>
 - [16] S. Ratna, “Sistem Monitoring Kesehatan Berbasis Internet Of Things (IoT),” *SISTEM MONITORING KESEHATAN BERBASIS INTERNET OF THINGS (IoT)*, vol. 5, no. 1, 2020.
 - [17] Y. A. Qadri, A. Nauman, Y. Bin Zikria, A. V. Vasilakos, dan S. W. Kim, “The Future of Healthcare Internet of Things: A Survey of Emerging Technologies,” *IEEE Communications Surveys and Tutorials*, vol. 22, no. 2, hlm. 1121–1167, Apr 2020, doi: 10.1109/COMST.2020.2973314.
 - [18] S. Selvaraj dan S. Sundaravaradhan, “Challenges and opportunities in IoT healthcare systems: a systematic review,” *SN Appl Sci*, vol. 2, no. 1, Jan 2020, doi: 10.1007/s42452-019-1925-y.
 - [19] A. N. Pramudhita, A. Muhsyi, dan M. Astiningrum, “Sistem Pelayanan Kesehatan Terpadu Berbasis IoT Pada Fasilitas Kesehatan,” *Jurnal Ilmiah*

- Educic*, vol. 5, no. 1, hlm. 1–16, Nov 2018, doi: <https://doi.org/10.21107/educic.v5i1.4381>.
- [20] R. A. Wijonarko, E. Sakti Pramukantoro, dan F. A. Bahktiar, “Implementasi Mekanisme Pengiriman Data Kesehatan Berbasis Protokol Bluetooth Low Energy antara Smartwatch dengan IoT Middleware,” vol. 3, no. 6, hlm. 5450–5459, 2019, [Daring]. Tersedia pada: <http://j-ptiik.ub.ac.id>
 - [21] P. Chougale, V. Yadav, A. Gaikwad, dan B. Vidyapeeth, “FIREBASE-OVERVIEW AND USAGE,” *Article in Journal of Engineering and Technology Management*, vol. 03, no. 2021, hlm. 1–6, Des 2022, [Daring]. Tersedia pada: www.irjmets.com
 - [22] L. Li *dkk.*, “Nondestructive Detection of Key Phenotypes for the Canopy of the Watermelon Plug Seedlings Based on Deep Learning,” *Hortic Plant J*, Sep 2023, doi: 10.1016/j.hpj.2022.09.013.
 - [23] C. Rizki, “Alat Pengukur Saturasi Oksigen Dalam Darah Menggunakan Metode Ppg Relectance Pada Sensor MAX30100,” Universitas Islam Negeri Syarif Hidayatullah Jakarta, Jakarta, 2019.
 - [24] O. Tsiakaka, B. Gosselin, dan S. Feruglio, “Source–detector spectral pairing-related inaccuracies in pulse oximetry: Evaluation of the wavelength shift,” *Sensors (Switzerland)*, vol. 20, no. 11, hlm. 1–17, Jun 2020, doi: 10.3390/s20113302.
 - [25] Maxim Integrated, “MAX30102 MAXIM | Alldatasheet,” *Pulse Oximeter and Heart-Rate Sensor IC for Wearable Health*, vol. Rev0; 9/14, no. MAX30102, hlm. 1–29, 2014, [Daring]. Tersedia pada: www.maximintegrated.com
 - [26] Maxim Integrated, “MAX86140/MAX86141 - Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health,” *MAX86140/MAX86141*, vol. 4, no. 1, hlm. 1–89, Okt 2021, [Daring]. Tersedia pada: www.maximintegrated.com
 - [27] Rohm CO dan LTD, “BH1790GLC : Sensors & MEMS,” *Sensor for Heart Rate Monitor ICs*, vol. 004, no. BH1790GLC, hlm. 1–25, Feb 2017, [Daring]. Tersedia pada: www.rohm.com
 - [28] espressif IoT Team, “esp8266-technical_reference_en,” *Technical Reference*, vol. 1.7, no. ESP8266, hlm. 1–17, 2020.
 - [29] arduino nano, “Arduino® Nano,” *Product Reference Manual SKU: A000005*, no. DataSheet, hlm. 1–26, Jan 2025.
 - [30] COMPONENT101, “■ Ratings and Safety Standards Items Specifications,” *SPST ON-OFF Rocker Switch (Non-illuminated)*, no. Datasheet of SPST

- Rocker *Switch*, Agu 2018, Diakses: 30 Desember 2024. [Daring]. Tersedia pada:
https://components101.com/sites/default/files/component_datasheet/Datasheet%20of%20SPST%20Rocker%20Switch.pdf
- [31] A. P. Abiyasa, I. W. Sukadana, I. W. Utama, dan I. W. Sugarayasa, “Datalogger Portabel Online Untuk Remote Monitoring Menggunakan Arduino Mikrokontroler,” *IEE*, 2017, [Daring]. Tersedia pada: www.wampserver.com.
- [32] e-Gizmo Mechatronix Central, “Tp4056,” *Battery Charger*, no. Specification TP4056, 2016, Diakses: 30 Desember 2024. [Daring]. Tersedia pada: <https://radiolux.com.ua/files/pdf/TP4056-manual.pdf>
- [33] MikroElektronik, “Li-Polymer battery datasheet,” *Development tools*, no. Li-Polymer battery datasheet, Mar 2013, Diakses: 30 Desember 2024. [Daring]. Tersedia pada: <https://www.farnell.com/datasheets/2369105.pdf>
- [34] O. Rosenkrantz *dkk.*, “Hypoxemia in trauma patients receiving two different oxygen strategies: a TRAUMOX2 substudy,” *Scand J Trauma Resusc Emerg Med*, vol. 33, no. 1, hlm. 47, Mar 2025, doi: 10.1186/s13049-025-01360-z.
- [35] S. Nanini, M. Abid, Y. Mamouni, A. Wiedemann, P. Jouvét, dan S. Bourassa, “Article Development and Comparative Analysis of Machine Learning Models for Hypoxemia Severity Triage in CBRNE Emergency Scenarios Using Physiological and Demographic Data from Medical-Grade Devices,” *Mach Learn*, hlm. 1–39, Okt 2024, doi: <https://doi.org/10.48550/arXiv.2410.23503>.
- [36] H. Ideguchi *dkk.*, “Validation of a breath-holding test as a screening test for exercise-induced hypoxemia in chronic respiratory diseases,” *Chron Respir Dis*, vol. 18, 2021, doi: 10.1177/14799731211012965.