

DAFTAR PUSTAKA

- [1] B. Jiao, "Anti-Motion Interference Wearable Device for Monitoring Blood Oxygen Saturation Based on Sliding Window Algorithm," *IEEE Access*, vol. 8, pp. 124675–124687, 2020, doi: 10.1109/ACCESS.2020.3005981.
- [2] M. Proenca *et al.*, "Performance Assessment of a Dedicated Reflectance Pulse Oximeter in a Neonatal Intensive Care Unit," in *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS*, 2018, vol. 2018-July, pp. 1502–1505. doi: 10.1109/EMBC.2018.8512504.
- [3] T. Nguyen, "Estimation Of The Relationship Between ECG and SpO2 Signals Of Human ESTIMATION OF THE RELATIONSHIP BETWEEN ECG AND SPO2 SIGNALS OF HUMAN," 2020.
- [4] F. Ryan, N. Fadhilah, I. D. Gede, H. Wisana, and P. C. Nugraha, "Monitoring SpO2 Secara Wireless Berbasis Computer," *J. Teknokes*, vol. 14, no. 1, pp. 20–27, 2021, doi: 10.35882/teknokes.v14i1.4.

- [5] M. Fissabila, P. C. Nugraha, and M. R. Mak'ruf, "Pengembangan Pusat Pemantauan Central SpO₂ untuk Ruang Neonate dengan Sistem Wireless," *J. Teknokes*, vol. 13, no. 1, pp. 52–59, 2020, doi: 10.35882/teknokes.v13i1.7.
- [6] E. A. Suprayitno, M. R. Marlianto, and M. I. Mauliana, "Measurement device for detecting oxygen saturation in blood, heart rate, and temperature of human body," *J. Phys. Conf. Ser.*, vol. 1402, no. 3, 2019, doi: 10.1088/1742-6596/1402/3/033110.
- [7] S. Khairunnisa, I. D. Gede, H. Wisana, I. Priyambada, C. Nugraha, and J. T. Elektromedik, "Rancang Bangun Pulse Oximeter Berbasis Iot (Internet of Things)," 2018.
- [8] S. Shah *et al.*, "Novel Use of Home Pulse Oximetry Monitoring in COVID-19 Patients Discharged From the Emergency Department Identifies Need for Hospitalization," *Acad. Emerg. Med.*, vol. 27, no. 8, pp. 681–692, 2020, doi: 10.1111/acem.14053.
- [9] J. Su *et al.*, "Real-time Fusion of ECG and SpO₂ Signals to Reduce False Alarms," *Comput. Cardiol.*

- (2010)., vol. 2018-Septe, pp. 1–4, 2018, doi: 10.22489/CinC.2018.163.
- [10] P. Bifulco, M. Cesarelli, A. Fratini, and M. Ruffo, “<05966735.Pdf>,” pp. 10–13, 2011.
- [11] L. Umar, I. Firmansyah, and R. N. Setiadi, “Design of Pulse Oximetry Based on Photoplethysmography and Beat Rate Signal Using DS-100 Probe Sensor for SpO2 Measurement,” in *ISSIMM 2018 - 3rd International Seminar on Sensors, Instrumentation, Measurement and Metrology, Proceeding*, 2018, vol. 0, no. 2, pp. 44–47. doi: 10.1109/ISSIMM.2018.8727725.
- [12] N. Celik, N. Manivannan, and W. Balachandran, “Evaluation of a Behind-the-Ear ECG Device for Smartphone Based Integrated Multiple Smart Sensor System in Health Applications,” *Int. J. Adv. Comput. Sci. Appl.*, vol. 7, no. 7, 2016, doi: 10.14569/ijacsa.2016.070757.
- [13] U. Ghadge, A. S. Jadhav, and P. Mahalakshmi, “ECG Tracking and Analysis Using Bluetooth and Support Vector Machine Algorithm,” *2019 Innov. Power Adv. Comput. Technol. i-PACT 2019*, pp. 1–4, 2019, doi: 10.1109/i-

PACT44901.2019.8960237.

- [14] F. C. Argatu, F. C. Adochiei, I. R. Adochiei, R. Ciucu, V. Vasiliki, and G. Seritan, “A scalable real-time biomonitoring platform,” *2019 7th E-Health Bioeng. Conf. EHB 2019*, pp. 23–26, 2019, doi: 10.1109/EHB47216.2019.8970064.
- [15] M. A. Burhanuddin *et al.*, “The Design of Low-Cost Patient Monitor Based on Computer,” *Proc. - 2019 Int. Semin. Appl. Technol. Inf. Commun. Ind. 4.0 Retrospect. Prospect. Challenges, iSemantic 2019*, pp. 405–410, 2019, doi: 10.1109/ISEMANTIC.2019.8884346.
- [16] W. J. Iskandar, I. Roihan, and R. A. Koestoer, “Prototype low-cost portable electrocardiogram (ECG) based on Arduino-Uno with Bluetooth feature,” *AIP Conf. Proc.*, vol. 2193, no. December, 2019, doi: 10.1063/1.5139392.
- [17] H. J. Davies, I. Williams, N. S. Peters, and D. P. Mandic, “In-ear spo2: A tool for wearable, unobtrusive monitoring of core blood oxygen saturation,” *Sensors (Switzerland)*, vol. 20, no. 17, pp. 1–12, 2020, doi: 10.3390/s20174879.
- [18] R. Kher, B. Thakker, N. Gandhi, and J. Patel,

- “Ambulatory ECG Recording System Based on ADS 1298 and STM32L431xx Microcontroller,” *Int. J. Simul. Syst. Sci. Technol.*, pp. 1–6, 2019, doi: 10.5013/ijssst.a.20.05.03.
- [19] V. Miron-alexe, “MOBILE CARDIAC TELEMETRY SYSTEM FOR ISOLATED,” vol. 2, no. 2, p. 130004, 2021.
- [20] Z. Ar, O. Al, and A. Ap, “COVID-19 pandemic management: a multi-parameter portable healthcare monitoring device,” *Int. J. Biosens. Bioelectron. Res.*, vol. 7, no. November, pp. 116–120, 2021, doi: 10.15406/ijbsbe.2021.07.00224.
- [21] A. S. Utomo, E. H. P. Negoro, and M. Sofie, “Monitoring Heart Rate Dan Saturasi Oksigen Melalui Smartphone,” *J. Tek. Mesin, Elektro dan Ilmu Komput.*, vol. 10, no. 1, pp. 319–324, 2019, doi: 10.24176/simet.v10i1.3024.
- [22] F. Baudino, B. Chieng, and F. Kavassalis, “Worcester Polytechnic Institute Major Qualifying Project Report WIRELESS WEARABLE SENSOR FOR BIOMETRIC DATA EXTRACTION FROM REFLECTIVE PPG WAVEFORM WITH REALTIME DATABASE,”

2020.

- [23] Muhdi, Abdullah, and Usman, “Sistem Klasifikasi Penyakit Asma Menggunakan Algoritma Naive Bayes (Studi Kasus : Puskesmas Sungai Salak),” *J. Sist.*, vol. 6, no. September, pp. 34–39, 2017.
- [24] A. Putot, F. Chague, P. Manckoundia, Y. Cottin, and M. Zeller, “Post-Infectious Myocardial Infarction: New Insights for Improved Screening,” *J. Clin. Med.*, vol. 8, no. 6, p. 827, 2019, doi: 10.3390/jcm8060827.
- [25] W. Koishi, M. Kumagai, S. Ogawa, S. Hongo, and K. Suzuki, “Monitoring the Oxygen Reserve Index can contribute to the early detection of deterioration in blood oxygenation during one-lung ventilation,” *Minerva Anesthesiol.*, vol. 84, no. 9, pp. 1063–1069, 2018, doi: 10.23736/S0375-9393.18.12622-8.
- [26] D. R. Tisna, M. U. H. Al Rasyid, and S. Sukaridhoto, “Implementation of Oxymetry Sensors for Cardiovascular Load Monitoring When Physical Exercise,” *Emit. Int. J. Eng. Technol.*, vol. 8, no. 1, pp. 178–199, 2020, doi: 10.24003/emitter.v8i1.482.
- [27] D. Mishra, N. Priyadarshini, S. Chakraborty, and

- M. Sarkar, “Blood oxygen saturation measurement using polarization-dependent optical sectioning,” *IEEE Sens. J.*, vol. 17, no. 12, pp. 3900–3908, 2017, doi: 10.1109/JSEN.2017.2698520.
- [28] J. LaPier and M. Chatellier, “Can Low Cost Fingertip Pulse Oximeters Be Used To Measure Oxygen Saturation and Heart Rate During Walking?,” *Int. J. Physiother. Res.*, vol. 4, no. 5, pp. 1689–1695, 2016, doi: 10.16965/ijpr.2016.166.
- [29] E. Datasheet, “ESP32 Series Datasheet,” *Espr. Syst.*, pp. 1–65, 2021, [Online]. Available: https://www.espressif.com/sites/default/files/documentation/esp32_datasheet_en.pdf
- [30] ESP, “ESP32 Series Datasheet,” *Espr. Syst.*, pp. 1–65, 2021, [Online]. Available: https://www.espressif.com/en/support/download/documents.%0Ahttps://www.espressif.com/sites/default/files/documentation/esp32_datasheet_en.pdf
- [31] “RoboRemo v2.3.5 User Manual”.
- [32] U. A. Ramadhani, I. D. G. H. Wisana, and P. C. Nugraha, “Smartphone Based Respiratory Signal monitoring and Apnea detection Via Bluetooth Communication,” *J. Teknokes*, vol. 14, no. 2, pp. 49–

55, 2021, doi: 10.35882/teknokes.v14i2.1.