

REFERENSI

- [1] D. Yang, J. Zhu, and P. Zhu, "SpO2 and heart rate measurement with wearable watch based on PPG," *IET Conf. Publ.*, vol. 2015, no. CP680, 2015, doi: 10.1049/cp.2015.0784.
- [2] L. Agustine, I. Muljono, P. R. Angka, A. Gunadhi, D. Lestariningsih, and W. A. Weliamto, "Heart Rate Monitoring Device for Arrhythmia Using Pulse Oximeter Sensor Based on Android," *2018 Int. Conf. Comput. Eng. Netw. Intell. Multimedia, CENIM 2018 - Proceeding*, pp. 106–111, 2018, doi: 10.1109/CENIM.2018.8711120.
- [3] D. Dias and J. P. S. Cunha, "Wearable health devices—vital sign monitoring, systems and technologies," *Sensors (Switzerland)*, vol. 18, no. 8, 2018, doi: 10.3390/s18082414.
- [4] M. Subhedar, V. Jadhav, S. Tekade, and M. Prajapati, "A Real Time Healthcare Monitoring System Based on Open Source IoT and ANFIS," *Proc. 2nd Int. Conf. Intell. Comput. Control Syst. ICICCS 2018*, no. Iccics, pp. 281–286, 2019, doi: 10.1109/ICCONS.2018.8663037.
- [5] S. Jacob, S. S. Yadav, and B. S. Sikarwar, *Design*

and simulation of isolation room for a hospital.
Springer Singapore, 2019.

- [6] A. Fanani, B. G. Irianto, and A. Pudji, “SENTRALMONITOR BASED ON PERSONAL COMPUTER (PC) VIA WIRELESS 1 RECEIVER (SPO2 PARAMETER),” no. 1, 2019.
- [7] A. D. Priya and A. Raspberry, “Health Monitoring System using IoT,” *2019 Int. Conf. Vis. Towar. Emerg. Trends Commun. Netw.*, pp. 1–3, 2019.
- [8] K. Jose Reena and R. Parameswari, “A Smart Health Care Monitor System in IoT Based Human Activities of Daily Living: A Review,” *Proc. Int. Conf. Mach. Learn. Big Data, Cloud Parallel Comput. Trends, Prespectives Prospect. Com. 2019*, pp. 446–448, 2019, doi: 10.1109/COMITCon.2019.8862439.
- [9] A. Sarotama and Melyana, “Implementasi Peringatan Abnormalitas Tanda-Tanda Vital pada Telemedicine Workstation,” *J. Nas. Sains dan Teknol.*, vol. 21, no. 1, pp. 1–9, 2019.
- [10] E. Baba, A. Jilbab, and A. Hammouch, “A health remote monitoring application based on wireless body area networks,” *2018 Int. Conf. Intell. Syst.*

- Comput. Vision, ISCV 2018*, vol. 2018-May, pp. 1–4, 2018, doi: 10.1109/ISACV.2018.8354042.
- [11] R. Dvhg, H. Vwhp, V. Tamilselvi, A. I. J. R. K, and R. P. A. S. Health, “R7 %Dvhg +Hdowk 0Rqlwrulqj 6\Vwhp,” pp. 386–389, 2020.
- [12] K. Kalovrektis, “System Design for Monitoring Blood Oxygen and Heart Rate in IoT Medical Applications,” 2020.
- [13] U. A. Contardi, M. Morikawa, B. Brunelli, and D. V. Thomaz, “MAX30102 Photometric Biosensor Coupled to ESP32-Webserver Capabilities for Continuous Point of Care Oxygen Saturation and Heartrate Monitoring,” p. 9, 2022, doi: 10.3390/iecb2022-11114.
- [14] T. Ahrens, “The most important vital signs are not being measured,” *Aust. Crit. Care*, vol. 21, no. 1, pp. 3–5, 2008, doi: 10.1016/j.aucc.2007.12.061.
- [15] G. B. Smith *et al.*, “Hospital-wide physiological surveillance-A new approach to the early identification and management of the sick patient,” *Resuscitation*, vol. 71, no. 1, pp. 19–28, 2006, doi: 10.1016/j.resuscitation.2006.03.008.
- [16] A. R. M. Forkan and I. Khalil, “PEACE-Home:

Probabilistic estimation of abnormal clinical events using vital sign correlations for reliable home-based monitoring,” *Pervasive Mob. Comput.*, vol. 38, no. October, pp. 296–311, 2017, doi: 10.1016/j.pmcj.2016.12.009.

- [17] A. B. Dhariyanto, B. G. I, and D. Titisari, “SentralMonitor Berbasis Personal Computer (Pc) Via Wireless (Parameter Electrocardiograph Dan Detak Jantung),” *Digilib*, pp. 2–10, 2018.
- [18] S. Khairunnisa, I. D. Gede, H. Wisana, I. Priyambada, C. Nugraha, and J. T. Elektromedik, “RANCANG BANGUN PULSE OXIMETER BERBASIS IOT (INTERNET OF THINGS),” 2014.
- [19] A. A. C. Carcamo, M. G. M. Reyes, and S. M. S. Urbina, “Low cost Pulse Oximeter using Arduino,” *IEEE Chil. Conf. Electr. Electron. Eng. Inf. Commun. Technol. CHILECON 2019*, pp. 1–6, 2019, doi: 10.1109/CHILECON47746.2019.8988029.
- [20] O. Y. Tham, M. A. Markom, A. H. A. Bakar, E. S. M. M. Tan, and A. M. Markom, “IoT Health Monitoring Device of Oxygen Saturation (SpO2)

and Heart Rate Level,” *Proceeding - 1st Int. Conf. Inf. Technol. Adv. Mech. Electr. Eng. ICITAMEE 2020*, pp. 128–133, 2020, doi: 10.1109/ICITAMEE50454.2020.9398455.

- [21] I. Allafi and T. Iqbal, “Design and implementation of a low cost web server using ESP32 for real-time photovoltaic system monitoring,” *2017 IEEE Electr. Power Energy Conf. EPEC 2017*, vol. 2017-
Octob, pp. 1–5, 2018, doi: 10.1109/EPEC.2017.8286184.
- [22] S. Sawidin *et al.*, “Kontrol dan Monitoring Sistem Smart Home Menggunakan Web Thinger.io Berbasis IoT,” *Prosiding The 12th Ind. Res. Work. Natl. Semin.*, pp. 464–471, 2021.
- [23] D. Cho, J. Kim, K. J. Lee, and S. Kim, “Reduction of Motion Artifacts from Remote Photoplethysmography Using Adaptive Noise Cancellation and Modified HSI Model,” *IEEE Access*, vol. 9, pp. 122655–122667, 2021, doi: 10.1109/ACCESS.2021.3106046.
- [24] A. T. Farhan Taufiqurrahman Ashegaf, Bonaventura Ananda Daniel Naipospos, Benediktus Bryan Bimantoro, “Kursi roda elektrik

dengan sistem pemantauan kesehatan pengguna, lokasi, dan pendeteksi kecelakaan berbasis iot,” *Transient*, vol. 8, no. 2, pp. 119–127, 2019.

- [25] M. N. I. Shuzan *et al.*, “A Novel Non-Invasive Estimation of Respiration Rate from Motion Corrupted Photoplethysmograph Signal Using Machine Learning Model,” *IEEE Access*, vol. 9, pp. 96775–96790, 2021, doi: 10.1109/ACCESS.2021.3095380.
- [26] M. Kajita and S. Hara, “Motion Artifact Canceling PPG Heart Rate Sensor Based on an Adaptive Filter Algorithm with Variable Tap Length,” in *2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, Jul. 2020, vol. 2020-July, pp. 4410–4413, doi: 10.1109/EMBC44109.2020.9176715.
- [27] F. Peng, W. Wang, and H. Liu, “Development of a reflective PPG signal sensor,” *Proc. - 2014 7th Int. Conf. Biomed. Eng. Informatics, BMEI 2014*, vol. i, no. Bmei, pp. 612–616, 2014, doi: 10.1109/BMEI.2014.7002847.
- [28] E. Shchelkanova, A. Shchelkanov, L. Shchapova, and T. Shibata, “An Exploration of Blue PPG

Signal Using a Novel Color Sensorbased PPG System,” *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, vol. 2020-July, pp. 4414–4420, 2020, doi: 10.1109/EMBC44109.2020.9175745.