

DAFTAR PUSTAKA

- [1] B. Waschki *et al.*, “Physical activity monitoring in COPD : Compliance and associations with clinical characteristics in a multicenter study *,” *Respir. Med.*, vol. 106, no. 4, pp. 522–530, 2012.
- [2] R. A. Pauwels and K. F. Rabe, “Burden and clinical features of chronic obstructive pulmonary disease (COPD),” vol. 364, 2004.
- [3] R. Oemiati, “KAJIAN EPIDEMIOLOGIS PENYAKIT PARU,” vol. 23, no. 2, pp. 82–88, 2013.
- [4] D. I. Rs, P. Ario, W. Salatiga, and K. Kunci, “PERUBAHAN SATURASI OKSIGEN PADA PASIEN PPOK,” pp. 1–11.
- [5] R. I. E. L. Mikkelsen, T. Middelboe, and C. Pisinger, “Anxiety and depression in patients with chronic obstructive pulmonary disease (COPD). A review,” no. 1, 2004.
- [6] S. G. Pillai *et al.*, “A Genome-Wide Association Study in Chronic Obstructive Pulmonary Disease (COPD): Identification of Two Major Susceptibility Loci,” vol. 5, no. 3, pp. 1–8, 2020.
- [7] N. M. Siafakas *et al.*, “O p t i m a l a s s e s s m e n t a n d m a n a g e m e n t o f c h r o n i c o b s t r u c t i v e p u l m o n a r y d i s e a s e (C O P D),” pp. 1398–1420, 1995.
- [8] “Monitoring Breathing Rate at Home Allows Early Identifi cation of,” 2013.

- [9] A. H. Sinambela, A. P. Tarigan, and P. Pandia, "Pengaruh Latihan Fisik Terhadap Saturasi Oksigen pada Penderita Penyakit Paru Obstruktif Kronik Stabil," vol. 35, no. 3, 2015.
- [10] V. Ochoa and R. Sandoval, "Design of Pulse Oximeter with WiFi connectivity and interoperability with standard HL7 and IEEE 11073-10404:2008," *WMSCI 2014 - 18th World Multi-Conference Syst. Cybern. Informatics, Proc.*, vol. 2, no. 7, pp. 180–185, 2014.
- [11] D. P. Davis, J. Q. Hwang, and J. V. Dunford, "RATE OF DECLINE IN OXYGEN SATURATION AT VARIOUS PULSE OXIMETRY," pp. 46–51, 2007.
- [12] J. A. Dawson and C. J. Morley, "Seminars in Fetal & Neonatal Medicine Monitoring oxygen saturation and heart rate in the early neonatal period," pp. 1–5, 2010.
- [13] C. Casanova *et al.*, "Twenty-Four-Hour Ambulatory Oximetry Monitoring in COPD Patients With Moderate Hypoxemia," pp. 1416–1423, 2006.
- [14] H. S. Habib, K. A. S. Hospital, and S. Arabia, "Normal Values of Pulse Oximetry in Newborns at High Altitude," no. April, 2005.
- [15] S. Bagha and L. Shaw, "A Real Time Analysis of PPG Signal for Measurement of SpO₂ and Pulse Rate," vol. 36, no. 11, pp. 45–50, 2011.
- [16] E. M. J. Durlinger *et al.*, "Hyperoxia : At what level of SpO₂ is a patient safe ? A study in mechanically

ventilated ICU patients,” *J. Crit. Care*, vol. 39, no. January 2015, pp. 199–204, 2017.

- [17] L. Carlos, M. Vanderlei, D. Ramos, U. E. De Londrina, and M. Velloso, “Influence of pursed-lip breathing on heart rate variability and cardiorespiratory parameters in subjects with chronic obstructive pulmonary disease (COPD)
Influência da respiração freno-labial sobre a variabilidade da frequência cardíaca e parâmetros,” no. June, 2014.
- [18] A. Report, “How to Design Peripheral Oxygen Saturation (SpO₂) and Optical Heart Rate Monitoring (OHRM) Systems Using the,” no. March, pp. 1–7, 2015.
- [19] U. Salamah and K. Oksigen, “RANCANG BANGUN PULSE OXIMETRY MENGGUNAKAN ARDUINO SEBAGAI I .
PENDAHULUAN Salah satu organ terpenting dalam tubuh manusia adalah darah . Darah merupakan sistem transportasi tubuh yang membawa zat- zat yang dibutuhkan oleh tubuh dan mengedarkannya ke seluruh,” vol. 6, no. 2, 2016.
- [20] Mohamad Ikhsan Dwiyono, “RANCANG BANGUN SPO₂ NON INVASIVE DILENGKAPI ALARM UNTUK DIAGNOSA ABNORMAL BERBASIS ARDUINO ATMEGA 328,” 2017.
- [21] S. Sneha, T. Madhav, T. Nitin, and P. J. H. Shaikh, “A Review Paper on Smart Health Monitoring System,” vol. 6, no. 2, pp. 1113–1116, 2018.
- [22] R. C. R, K. P. Safeer, and P. Srividya, “Design and Development of Miniaturized Pulse Oximeter for

Continuous Spo2 and HR Monitoring with Wireless Technology,” no. 1, pp. 11–15, 2015.

- [23] C. A. Pratiwi, P. Madona, and P. Wijaya, “19. Akuisisi Data Sinyal Photoplethysmograph (PPG) Menggunakan Photodiode,” *J. Politek. Caltex Riau*, vol. 2, no. 2, pp. 33–42, 2016.
- [24] R. Yulian, “MENGHITUNG DETAK JANTUNG BERBASIS ARDUINO Riza Yulian Bambang Suprianto Abstrak,” vol. d, 2017.
- [25] I. M. Alhyari, M. A. Alabadi, G. J. Hijazin, and F. T. Alasasfeh, “SPO2 Vital Sign: Definition, Ranges, and Measurements,” *Int. J. Sci. Res. Publ.*, vol. 8, no. 7, pp. 287–289, 2018.
- [26] S. Lopez, “Pulse Oximeter Fundamentals and Design,” *Free. Semicond. Inc.*, pp. 1–39, 2012.
- [27] H. F. Dian Bagas Setyo Budi, Rizal Maulana, “Sistem Deteksi Gejala Hipoksia Berdasarkan Saturasi Oksigen Dengan Detak Jantung Menggunakan Metode Fuzzy Berbasis Arduino,” *J. Pengemb. Teknol. Inf. dan Ilmu Komputer.*, vol. 3, no. 2, pp. 1925–1933, 2019.
- [28] A. Kaplan and M. Haenlein, “Media sosial berbasis internet menggunakan ideologi dan teknologi Web 2.0,” vol. 6, no. 2, 2010.
- [29] V. Gupta, M. Singh, and R. Mahajan, “Design of Wireless Anti-spoofing Device for Measuring Blood Oxygen Concentration and Heart Rate,” *Int. J. Comput. Appl.*, vol. 47, no. 25, pp. 30–34, 2012.
- [30] F. UGHI, “Proof-of-Concept Simulasi Kadar Saturasi Oksigen untuk Evaluasi Pulse Oximeter,”

ELKOMIKA J. Tek. Energi Elektr. Tek. Telekomun. Tek. Elektron., vol. 6, no. 1, p. 110, 2018.

- [31] H. Shirzadfar, “Design and Manufacture a Portable Medical Instrument Based on Optical Sensor to Measure the SpO₂ and Heart Rate,” pp. 1–6, 2019.
- [32] A. K. Kanva, C. J. Sharma, and S. Deb, “Determination of SpO₂ and heart-rate using smartphone camera,” *Int. Conf. Control. Instrumentation, Energy Commun. CIEC 2014*, no. 1, pp. 237–241, 2014.
- [33] L. Irwig, D. Ph, B. Ch, J. M. Simpson, and D. Ph, “Oxygen-Saturation Targets and Outcomes in Extremely Preterm Infants,” pp. 959–967, 2003.
- [34] J. G. Pak and K. H. Park, “Advanced Pulse Oximetry System for Remote Monitoring and Management,” vol. 2012, 2012.
- [35] B. Anupama and K. Ravishankar, “Working mechanism and utility of pulse oximeter,” vol. 2, no. 2, pp. 111–113, 2018.
- [36] T. M. Kadarina and R. Priambodo, “Monitoring heart rate and SpO₂ using Thingsboard IoT platform for mother and child preventive healthcare,” *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 453, no. 1, 2018.
- [37] M. W. Wukitsch, “Pulse oximetry: Historical review and Ohmeda functional analysis,” pp. 161–162, 1987.
- [38] D. Ryan, S. Nestor, M. J. McDonnell, and R. M. Rutherford, “Pulse oximetry in general practice : an

underutilised assessment tool,” no. January, pp. 775–776, 2016.

- [39] W. Chen, S. B. Oetomo, L. Feijs, S. Bouwstra, I. Ayoola, and S. Dols, “Design of an integrated sensor platform for vital sign monitoring of newborn infants at Neonatal Intensive Care Units,” *J. Healthc. Eng.*, vol. 1, no. 4, pp. 535–554, 2010.
- [40] S. Demeulenaere, “Pulse Oximetry ;,” no. May 2007.
- [41] R. Stojanovic and D. Karadagic, “Design of an Oximeter Based on LED-LED Configuration and FPGA Technology,” pp. 574–586, 2013.
- [42] “PENGERTIAN, FUNGSI, DAN PERKEMBANGAN PERSONAL COMPUTER (PC) – Dakwah Islamiyyah Media Sosial & Personal Computer.” .
- [43] C. Cyber, “Mengenali Arduino Nano.” 2016.
- [44] “PLX-DAQ Pengukuran TEORI DASARcommon.” .