

DAFTAR PUSTAKA

- [1] P. . Jurnal, K. Masyarakat, S. A. Kosentrasi, R. Debu, D. Gangguan, K. Pada, M. Di, P. S. Pltu, S. Arba, J. Kesehatan, L. Poltekkes, and K. Ternate, “Kosentrasi respirable debu particulate matter(pm2,5) dan gangguan kesehatan pada masyarakat di pemukiman sekitar pltu,” *Jurnal Kesehatan Masyarakat*, vol. 9, pp. 178–184, 2019.
- [2] M. Simarmata, A. R, O. Pasanda, I. Marzuki, D. Soputra, F. Sudasman, E. Mohamad, M. Syahrir, S. Hardiyanti, M. Mahyati *et al.*, “Pengantar pencemaran udara,” *Yayasan Kita Menulis*, 2022. [Online]. Available: <https://books.google.co.id/books?id=9WR9EAAAQBAJ>
- [3] D. Chaniago, A. Zahara, and I. Ramadhani, “Indeks standar pencemar udara (ispu) sebagai informasi mutu udara ambien di indonesia,” 9 2020. [Online]. Available: <https://ditppu.menlhk.go.id/portal/read/indeks-standar-pencemar-udara-ispu-sebagai-informasi-mutu-udara-ambien-di-indonesia>
- [4] WHO, “Who global air quality guidelines. particulate matter (pm2.5 and pm10), ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide,” *World Health Organization*, 2021.
- [5] IQAir, “World’s most polluted cities (historical data 2017-2021),” 2021. [Online]. Available: <https://www.iqair.com/world-most-polluted-cities?continent=59af92b13e70001c1bd78e53&country=Rqrg4reHqi8taY4re&state=&sort=-rank&page=1&perPage=50&cities=>
- [6] Sensirion, “Indoor air quality the beginning of a new era,” 2021.
- [7] U. EPA, *Building Air Quality. A Guide for Building Owners and Facility Managers*. U.S. Environmental Protection Agency, 12 1991.
- [8] K. K. R. Indonesia, “Peraturan menteri kesehatan republik indonesia nomor 1077/menkes/per/v/2011,” 2011.
- [9] K. Madani, R. Hidayati, and U. Ristian, “Sistem update firmware perangkat iot menggunakan teknik ota berbasis http,” *JURIKOM (Jurnal Riset Komputer)*, vol. 9, 8 2022.
- [10] S. Kiresova, M. Guzan, and P. Galajda, “Measuring particulate matter (pm) using sps30.” Institute of Electrical and Electronics Engineers Inc., 2022.
- [11] P. Gäbel, C. Koller, and E. Hertig, “Development of air quality boxes based on low-cost sensor technology for ambient air quality monitoring,” *Sensors*, vol. 22, 5 2022.
- [12] R. M. F. Z. E. H. Partaningrat, “Rancang bangun sistem monitor kualitas udara dalam ruangan berbasis system-on-chip esp32,” 2019.
- [13] N. R. Wibowo, “Rancang bangun sistem detektor konsentrasi karbon dioksida (co2) dan particulate matter (pm2.5 & pm10 untuk sistem pemantauan lingkungan ruang huni,” 2022.

- [14] C.-M. Liu, "Effect of pm2.5 on aqi in taiwan," pp. 29–37, 2002. [Online]. Available: www.elsevier.com/locate/envsoft
- [15] S. V. D. Elshout, K. Léger, and H. Heich, "Caqi common air quality index - update with pm2.5 and sensitivity analysis," *Science of the Total Environment*, vol. 488–489, pp. 461–468, 8 2014.
- [16] B. Oktara, "Hubungan antara kualitas fisik udara dalam ruang (suhu dan kelembaban relatif) dengan kejadian sick building syndrome (sbs) pada pegawai kantor pusat perusahaan jasa konstruksi x di jakarta timur tahun 2008," *Skripsi Universitas Indonesia*, 2008.
- [17] N. Azizah, "Paparan particulate matter (pm2.5 dan pm10) dan kejadian berat badan lahir rendah di kota makassar," *Tesis Universitas Hasanuddin*, 2015. [Online]. Available: http://digilib.unhas.ac.id/uploaded_files/temporary/DigitalCollection/MzZiZTM5MTJjYTlnZjYzJlNzcwZTJkYmU1NGIzOTlhMzkzNjU5NWQ5ZA==.pdf
- [18] D. L. Fajri, "Mengenal pm 2.5 dan pm 10, partikel berbahaya bagi tubuh artikel ini telah tayang di katadata.co.id dengan judul "mengenal pm 2.5 dan pm 10, partikel berbahaya bagi tubuh" , <https://katadata.co.id/intan/berita/615177e7d841c/mengenal-pm-25-dan-pm-10-partikel-berbahaya-bagi-tubuh> penulis: Dwi latifatul fajri editor: Intan," 9 2021. [Online]. Available: <https://katadata.co.id/intan/berita/615177e7d841c/mengenal-pm-25-dan-pm-10-partikel-berbahaya-bagi-tubuh>
- [19] X. Wang, "Optical particle counter (opc) measurements and pulse height analysis (pha) data inversion," 2002.
- [20] S. Orley and J. Mathes, "A quick summary of ieee 754 notation:," 10 2000. [Online]. Available: <http://class.ece.iastate.edu/arun/cpre305/ieee754/homepage.html>
- [21] Sensirion, "Datasheet sps30 particulate matter sensor for air quality monitoring and control," 2020.
- [22] —, "Sensor specification statement how to understand specifications of sensirion particulate matter sensors," 2020.
- [23] J. Fraden, "Handbook of modern sensors physics, designs, and applications fifth edition," 2016.
- [24] P. K. Mondal, "Accuracy & precision and conceptualisation to estimation of measurement uncertainty in quantitative analysis of quality control testing of petroleum products," 2012. [Online]. Available: <https://www.researchgate.net/publication/306515421>
- [25] S. Systech, "Solomon systech semiconductor technical data ssd1306 128 x 64 dot matrix oled/pled segment/common driver with controller," 2008. [Online]. Available: <http://www.solomon-systech.com>
- [26] D. PAZRIYAH, "Penggunaan raspberry pi dalam mendeteksi warna melalui webcam," 2017.

- [27] R. Pi, "Raspberry pi 3 model b," 2023. [Online]. Available: <https://www.raspberrypi.com/products/raspberry-pi-3-model-b/>
- [28] STMicroelectronics, "Stm32 32-bit arm cortex mcus," 2023. [Online]. Available: <https://www.st.com/en/microcontrollers-microprocessors/stm32-32-bit-arm-cortex-mcus.html#overview>
- [29] H. Ashari, "Stm32 arm cortex-m sebagai media pembelajaran mikrokontroler," 2018. [Online]. Available: <http://eprints.uny.ac.id/62566/1/2.%20Hasim%20Ashari%2014502244005%20A.pdf>
- [30] STMicroelectronics, "Bluetooth 5 and 802.15.4 nucleo pack including usb dongle and nucleo-64 with stm32wb55 mcus, supports arduino uno v3 and st morpho connectivity," 2023. [Online]. Available: <https://www.st.com/en/evaluation-tools/p-nucleo-wb55.html>
- [31] —, "Stm32cubeide. integrated development environment for stm32." 2023. [Online]. Available: <https://www.st.com/en/development-tools/stm32cubeide.html>
- [32] K. Chakraborty, "Firmware," 9 2022. [Online]. Available: <https://www.techopedia.com/definition/2137/firmware>
- [33] tutorialspoint.com, "C programming tutorial." [Online]. Available: https://www.unf.edu/~wkloster/2220/ppts/cprogramming_tutorial.pdf
- [34] B. W. Kernighan and D. M. Ritchie, *The C Programming Language*, 2nd ed. Prentice Hall, 1988.
- [35] IEC, *INTERNATIONAL STANDARD Floating-point arithmetic IEEE Std 754™*, 2019. [Online]. Available: www.iso.org
- [36] Ayusharma, "Ieee standard 754 floating point numbers," 3 2020. [Online]. Available: <https://www.geeksforgeeks.org/ieee-standard-754-floating-point-numbers/>
- [37] L. Chaparro, "Integer numbers storage in computer memory," 8 2019. [Online]. Available: <https://medium.com/@luischaparro/integer-numbers-storage-in-computer-memory-47af4b59009#:~:text=According%20to%20the%20storage%20size,range%20of%20the%20stored%20numbers.>
- [38] SFUPTOWNMAKER, "I2c," 7 2013. [Online]. Available: <https://www.sparkfun.com/search/results?term=i2c#tutorials>
- [39] F. Surya, "I2c protokol," 2007. [Online]. Available: <https://comp-eng.binus.ac.id/files/2014/05/Artikel-I2C-Protokol.pdf>
- [40] H. Adams, "Inter-intergrated circuit (i2c)," 2022. [Online]. Available: [https://vanhunteradams.com/Protocols/I2C/I2C.html#V.-Hunter-Adams-\(vha3@cornell.edu\)](https://vanhunteradams.com/Protocols/I2C/I2C.html#V.-Hunter-Adams-(vha3@cornell.edu))
- [41] S. Afzal, "I2c primer: What is i2c? (part 1)," 2018. [Online]. Available: <https://www.analog.com/en/technical-articles/i2c-primer-what-is-i2c-part-1.html>
- [42] i2c bus.org, "10 bit adressing," 2022. [Online]. Available: <https://www.i2c-bus.org/addressing/10-bit-addressing/>

- [43] F. Baldassari, "I2c in a nutshell," 1 2020. [Online]. Available: <https://interrupt.memfault.com/blog/i2c-in-a-nutshell#acknack>
- [44] I. J. Sidabutar, "Rancang bangun muatan roket berbasis smartpho-
ne dan penambahan algoritma permintaan data ulang jika terjadi pac-
ket loss," 2016. [Online]. Available: https://elib.unikom.ac.id/files/disk1/700/jbptunikompp-gdl-imranjautt-34963-2-unikom_i-2.pdf
- [45] E. Peña and M. G. Legaspi, "Uart: A hardware communication protocol
understanding universal asynchronous receiver/transmitter," 2020. [Online]. Ava-
ilable: <https://www.analog.com/media/en/analog-dialogue/volume-54/number-4/uart-a-hardware-communication-protocol.pdf>
- [46] O. Pro, "Realterm – serial terminal for embedded debugging: Guide," 2019.
[Online]. Available: <https://openlabpro.com/guide/realterm-guide/>
- [47] elinux, "Grabserial," 2021. [Online]. Available: <https://elinux.org/Grabserial>
- [48] A. Ma'arif, *BAHASA PEMROGRAMAN PYTHON*, 2020.