

## DAFTAR PUSTAKA

- Ajie. (2019). *Cara Mengakses Sensor IR Obstacle Avoidance pada Arduino*. Indomaker.Com. <http://indomaker.com/index.php/2019/01/14/cara-mengakses-sensor-ir-obstacle-avoidance-pada-arduino/>
- Akmal, G. (2020). *Rancang Bangun Alat Ukur Berat Badan dan Tinggi Badan Berbasis Arduino*. Universitas Negeri Jakarta.
- Allegro Microsystems. (2014). *A4988: DMOS Microstepping Driver with Translator And Overcurrent Protection*. 1–22.
- Arduino. (2018a). *Arduino MKR WiFi 1010*. Store.Arduino.Cc. <https://store.arduino.cc/usa/mkr-wifi-1010>
- Arduino. (2018b). *Getting started with the MKR WiFi 1010*. Getting Started. <https://www.arduino.cc/en/Guide/MKRWiFi1010>
- Arduino. (2018c). *“Hello World!”* Arduino.Cc. <https://www.arduino.cc/en/Tutorial>HelloWorld>
- Arduino Team. (2018). *The MKR family gets bigger with two new IoT boards!* Arduino Blog. <https://blog.arduino.cc/2018/05/12/the-mkr-family-gets-bigger-with-two-new-iot-boards/>
- Arinda, I. D., & Yunianta. (2015). Pengaruh Daya Dan Lama Penyinaran Sinar Ultraviolet-C Terhadap Total Mikroba Sari Buah Salak Pondoh. *Jurnal Pangan Dan Agroindustri*, 3(4), 1337–1344. <https://jpa.ub.ac.id/index.php/jpa/article/view/256/265>
- Award, W. C., Byrne, D., & Adams, M. (2008). NIOSH Science Blog r2p Corner State-based Occupational Health updates. *Niosh ENews*, 5(12).
- Balai TekKomDik. (2013). *Workshop Robotik Pemanfaatan Mikrokontroler*.
- Berg, R. E. (2017). *Ultrasonics*. Encyclopaedia Britannica. <https://www.britannica.com/science/ultrasonics>
- Biotechnologies, A. (2020). *Is UV Sterilization Effective for Viruses and Bacteria?* Advanced Biotechnologies | Your Viral Reagent Company. <https://abionline.com/is-uv-sterilization-effective-for-viruses-and-bacteria/>
- Bluino. (2019). *Apa itu Arduino?* Bluino.Com. [https://www.bluino.com/2019/09/apa-itu-arduino\\_13.html](https://www.bluino.com/2019/09/apa-itu-arduino_13.html)

- Bolton J R and Cotton, C. A. (2008). The Ultraviolet Disinfection Handbook. In *American Water Works Association*.
- Borg, W. ., & Gall, M. . (1983). Educational Research an Introduction fourth edition. *Longman Inc*.
- Butcher, G. (2016). *Tour of The Electromagnetic Spectrum* (C. L. Parkinson & E. J. Wollack (eds.); Third Edit). National Aeronautics and Space Administration. [https://smd-prod.s3.amazonaws.com/science-pink/s3fs-public/atoms/files/Tour-of-the-EMS-TAGGED-v7\\_0.pdf](https://smd-prod.s3.amazonaws.com/science-pink/s3fs-public/atoms/files/Tour-of-the-EMS-TAGGED-v7_0.pdf)
- Coblentz, W. W., & Stair, R. (1930). Ultra-violet reflecting power of aluminum and several other metals. *Bureau of Standards Journal of Research*. <https://doi.org/10.6028/jres.004.013>
- Darmawan, D., Sutisna, S. P., & Sutoyo, E. (2018). Sistem Kontrol Pada Robot Pemindah Barang Tipe Cartesian Cordinat Menggunakan Arduino Uno R3. *AME (Aplikasi Mekanika Dan Energi): Jurnal Ilmiah Teknik Mesin*, 4(2), 76–83. <https://doi.org/10.32832/ame.v4i2.1540>
- Daywin, F. J., Utama, D. W., Kosasih, W., & Wiliam, K. (2019). Perancangan Mesin 3D Printer dengan Metode Reverse Engineering (Studi Kasus di Laboratorium Mekatronika dan Robotics Universitas Tarumanagara). *Jurnal Ilmiah Teknik Industri*. <https://doi.org/10.24912/jitiuntar.v7i2.5929>
- Erlita, N. (2015). Aplikasi Alat Ukur Tubuh Digital Menggunakan Metode Fuzzy Logic untuk Menentukan Kondisi Ideal Badan Dengan Tampilan LCD dan Output Suara untuk Tunanetra [Universitas Jember]. In *Digital Repository Universitas Jember*. <https://repository.unej.ac.id/bitstream/handle/123456789/70930/NormaErlita.pdf?sequence=1>
- Faricha, A., Adiputra, D., Hafidz, I., Iskandar Riansyah, M., Montolalu, B., Amifia, L. K., Fauzan Rasyid, M., Moch. Bagus, I. P., Nushfi, A. H., & Herjuno, D. (2019). Water Monitoring Prototype Using Internet of Things Technology. *2019 International Conference on Advanced Mechatronics, Intelligent Manufacture and Industrial Automation, ICAMIMIA 2019 - Proceeding*. <https://doi.org/10.1109/ICAMIMIA47173.2019.9223380>
- Fatturahman, F., & Irawan, I. (2019). Monitoring Filter Pada Tangki Air

- Menggunakan Sensor Turbidity Berbasis Arduino Mega 2560 via SMS Gateway. *Jurnal Komputasi*, 7(2), 19–29.  
<https://doi.org/10.23960/komputasi.v7i2.2422>
- Frima Yudha, P. S., & Sani, R. A. (2019). Implementasi Sensor Ultrasonik Hc-Sr04 Sebagai Sensor Parkir Mobil Berbasis Arduino. *EINSTEIN E-JOURNAL*, 5(3). <https://doi.org/10.24114/einstein.v5i3.12002>
- Hasan, S. S. (2019). *Interfacing Infrared (IR) Proximity Sensor with Arduino*. Circuits-Diy.Com. <https://circuits-diy.com/how-to-use-infrared-ir-proximity-sensor-with-arduino/>
- International Atomic Energy Agency. (2008). Radiation treatment of polluted water and wastewater. *IAEA-Tecdoc*, 2.
- Isfardiyana, S. H., & Safitri, S. R. (2014). Pentingnya melindungi kulit dari sinar ultraviolet dan cara melindungi kulit dengan sunblock buatan sendiri. *Jurnal Inovasi Dan Kewirausahaan*, 3(2), 126–133.  
<https://journal.uui.ac.id/ajie/article/view/7819>
- Joseph, A. (2020). *Interface I2C 16x2 LCD with Arduino Uno (Just 4 wires)*. Arduino Project Hub.  
<https://create.arduino.cc/projecthub/akshayjoseph666/interface-i2c-16x2-lcd-with-arduino-uno-just-4-wires-273b24>
- Kawamoto, H. (2002). The history of liquid-crystal displays. In *Proceedings of the IEEE*. <https://doi.org/10.1109/JPROC.2002.1002521>
- Kowalski, W. (2009). Ultraviolet Germinal Irradiation. In *Springer* (Vol. 53, Issue 9).
- Last Minute Engineers. (2021). *Control Stepper Motor with A4988 Driver Module & Arduino*. A4988 Stepper Driver. <https://lastminuteengineers.com/drv8825-stepper-motor-driver-arduino-tutorial/>
- Martalia, A., Widyaningrum, I., & Bambang, H. I. (2016). Kalibrasi Sensor Ultrasonik HC-SR04 Sebagai Sensor Pendeteksi Jarak pada Prototipe Sistem Peringatan Dini Bencana Banjir. *Prosiding Seminar Nasional Fisika (E-Journal) SNF2016, V*, SNF2016-CIP-61-SNF2016-CIP-66.  
<https://doi.org/10.21009/0305020113>
- Müller, A., Stahl, M. R., Graef, V., Franz, C. M. A. P., & Huch, M. (2011). UV-C



- Samsul, E. (2019). *Motor Stepper: Prinsip Kerja dan Pengendalian pada Otomasi Industri*. Jagootomasi.Com. <http://jagootomasi.com/motor-stepper-prinsip-kerja-dan-pengendalian-pada-otomasi-industri/>
- Santoso, D., Susilo, D., & Gunawan, A. (2017). Penggunaan Sensor Jarak Ultrasonik dan Sensor Proksimitas Inframerah dengan Metode Scanning dan Triangulasi untuk Mendeteksi Furnitur dan Boneka pada KRPAI Berkaki. *Techné : Jurnal Ilmiah Elektroteknika*, 16(02), 85–97. <https://doi.org/10.31358/techne.v16i02.162>
- Sells, J. (2019). *Driver Motor A4988 Stepper Dengan Arduino Tutorial*. Iknowvations.In. <https://iknowvations.in/id/Arduino/a4988-stepper-motor-driver-arduino-tutorial/#:~:text=A4988 adalah driver microstepping motor,motor langkah yang sangat mudah .&text=Dengan bantuan A4988 stepper modul,dua pin dari mikrokontroler setiap.>
- Sharath. (2018). *IR Proximity Sensor with Arduino*. Factoryforward.Com. <https://www.factoryforward.com/ir-proximity-sensor-arduino/>
- Siswanto, F., & Suryo, S. H. (2015). Rancang Bangun Alat Germicidal Udara Menggunakan Sinar Ultraviolet. *Jurnal Teknik Mesin*.
- Söderby, K. (2020). *Connecting MKR WiFi 1010 to a Wi-Fi network*. MKR WiFi 1010. <https://www.arduino.cc/en/Guide/MKRWiFi1010/connecting-to-wifi-network/>
- Spachos, P. (2020). Towards a Low-Cost Precision Viticulture System Using Internet of Things Devices. *IoT*, 1(1), 5–20. <https://doi.org/10.3390/iot1010002>
- Suprianto. (2015). *Liquid Crystal Display (LCD) 16×2*. Universitas Negeri Semarang.
- Syafrialdi, W. R. (2015). Rancang Bangun Solar Tracker Berbasis Mikrokontroler ATmega8535 dengan Sensor LDR dan Penampil LCD. *Jurnal Fisika Unand*.
- The American Cancer Society. (2019). *Ultraviolet (UV) Radiation* (pp. 1–11). The American Cancer Society. <https://www.cancer.org/content/dam/CRC/PDF/Public/8045.00.pdf>
- Turang, V. K., Tendean, L., & Anindita, P. S. (2018). Kajian Uji Konfrontasi Terhadap Bakteri Pathogen Dengan Menggunakan Metode Sebar, Metode

- Tuang, dan Metode Gores. *Jurnal E-GiGi (EG)*, Volume 6 N(April), 42–48.
- UIN Malang. (2020). Panduan Praktikum (Online) Mikrobiologi Umum. In *Mikrobiologi Umum*.
- Utami, A. N. (2009). *Perbandingan Efek Antiinflamasi Kurkumin 1% dalam Vehikulum Krim dan Salep pada Kulit Mencit yang telah disinari Ultraviolet*. Universitas Indonesia.
- UV Light Technology. (2020). *UV-C dose required to kill microorganisms*. <https://uv-light.co.uk/uv-dosage-required-to-kill-microorganisms/>
- Visconti, P., Primiceri, P., de Fazio, R., & Lay Ekuakille, A. (2017). A Solar-Powered White LED-based UV-Vis Spectrophotometric System Managed by PC for Air Pollution Detection in Faraway and Unfriendly Locations. *International Journal on Smart Sensing and Intelligent Systems*, 10(1), 18–49. <https://doi.org/10.21307/ijssis-2017-201>
- Wilianto, W., & Kurniawan, A. (2018). Sejarah, Cara Kerja dan Manfaat Internet of Things. *Matrix: Jurnal Manajemen Teknologi Dan Informatika*, 8(2), 36–41. <https://doi.org/10.31940/matrix.v8i2.818>
- World Health Organization. (2020). Transmisi SARS-CoV-2 : implikasi terhadap kewaspadaan pencegahan infeksi. *Pernyataan Keilmuan*, 1–10. [who.int](http://who.int)
- Yolanda, A. (2017). Rancang Bangun Alat Sterilizer Peralatan Makan Bayi. In *Universitas Muhammadiyah Yogyakarta*. Universitas Muhammadiyah Yogyakarta.
- Yoo, J. H. (2018). Review of disinfection and sterilization - Back to the basics. In *Infection and Chemotherapy*. <https://doi.org/10.3947/ic.2018.50.2.101>
- Yunita, M., Hendrawan, Y., & Yulianingsih, R. (2015). Quantitative Analysis of Food Microbiology in Flight (Aerofood ACS) Garuda Indonesia Based on the TPC (Total Plate Count) with the Pour Plate Method. *Jurnal Keteknik Pertanian Tropis Dan Biosistem*, 3(3), 237–248.
- Yusro, M. (2017). Dasar Dasar Arduino. *Modul Teori Dan Praktikum Mikrokontroler - Arduino*.
- Zlatanov, N. (2016). Arduino and Open Source Computer Hardware and Software. *Journal of Water, Sanitation and Hygiene for Development*, 10(11), 1–8. <https://doi.org/10.13140/RG.2.1.1071.7849>