

DAFTAR PUSTAKA

- [1] Nigina, “Jangan Sepelekan Pentingnya Jarak Aman Berkendara!” [Online]. Available: <https://www.asukacartv.com/jarak-aman-berkendara/>
- [2] Wilson Kehoe Wingham staff, “Dangers of Speeding: Why Is it Illegal, and What Are the Legal Consequences?” [Online]. Available: <https://www.wkw.com/auto-accidents/blog/dangers-of-speeding-why-is-it-illegal-and-what-are-the-legal-consequences/>
- [3] Badan Pusat Statistik, “Jumlah Kecelakaan, Korban Mati, Luka Berat, Luka Ringan, dan Kerugian Materi, 2022.” [Online]. Available: <https://www.bps.go.id/id/statistics-table/2/NTEzIzI=/jumlah-kecelakaan--korban-mati--luka-berat--luka-ringan--dan-kerugian-materi.html>
- [4] Toyota, “Jaga Jarak Aman Sering Dilupakan, Begini Rumus 3 Detik Sebagai Patokan Jarak Mobil yang Aman di Jalan.” [Online]. Available: <https://www.toyota.astra.co.id/corporate-information/news-promo/read/jaga-jarak-aman-sering-dilupakan-begini-rumus-3-detik-sebagai-patokan-jarak-mobil-yang-aman-di-jalan>
- [5] N. Susanti, C. T. D E Angkat, D. Afriza Pohan, M. Nasution, and F. Kesehatan Masyarakat Universitas Islam Negeri Sumatera Utara, “ANALISIS FAKTOR-FAKTOR YANG BERHUBUNGAN DENGAN RESIKO KECELAKAAN LALU LINTAS,” vol. 5, no. 2, 2024.
- [6] Junmin Wang and R. Rajamani, “Adaptive cruise control system design and its impact on highway traffic flow,” Available: <https://ieeexplore.ieee.org/document/1024501>
- [7] Noor Cholis Basjaruddin, Kuspriyanto, Didin Saefudin, and Ganda Putra, “Sistem Penghindar Tabrakan Frontal Berbasis Logika Fuzzy”, *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, vol. 5, no. 3, pp. 228-232, 1. Available: <https://journal.ugm.ac.id/v3/JNTETI/article/view/2940>
- [8] S. Tekkesinoglu, A. Habibovic, and L. Kunze, “Advancing Explainable Autonomous Vehicle Systems: A Comprehensive Review and Research Roadmap,” *ACM Trans Hum Robot Interact*, vol. 14, no. 3, pp. 1–46, Jun. 2025, doi: 10.1145/3714478.
- [9] ITS Repository, "Penerapan Alat Monitoring dan Otomasi Smart Greenhouse berbasis IoT dengan Fuzzy Logic", *Institut Teknologi Sepuluh Nopember*, [Online]

- [10] Kementerian Keuangan Republik Indonesia, “UNDANG-UNDANG REPUBLIK INDONESIA NOMOR 22 TAHUN 2009 TENTANG LALU LINTAS DAN ANGKUTAN JALAN DENGAN RAHMAT TUHAN YANG MAHA ESA PRESIDEN REPUBLIK INDONESIA, .” [Online]. Available: <https://jdih.kemenkeu.go.id/fulltext/2009/22TAHUN2009UU.HTM>
- [11] Suzuki Dealer Cab, “Ketahui Cara Jaga Jarak Aman Berkendara Mobil.” [Online]. Available: <https://suzukidealercab.co.id/berita/ketahui-cara-jaga-jarak-aman-berkendara-mobil?page=all>
- [12] Sahroji Ahmad, “Berapa Jarak Aman Berkendara Menurut Undang-Undang? Simak Penjelasan Berikut Ini.” [Online]. Available: <https://era.id/news/137862/berapa-jarak-aman-berkendara-menurut-undang-undang-simak-penjelasan-berikut-ini>
- [13] A. S. Mohammed, A. Amamou, F. K. Ayevide, S. Kelouwani, K. Agbossou, and N. Zioui, “The perception system of intelligent ground vehicles in all weather conditions: A systematic literature review,” Nov. 02, 2020, *MDPI AG*. doi: 10.3390/s20226532.
- [14] B. Florus King, D. Panjaitan, A. Hartoyo,) Jurusan, and T. Elektro, “SISTEM KONTROL CHARGING DAN DISCHARGING SERTA MONITORING KESEHATAN BATERAI.” [Online]. Available: <https://jurnal.untan.ac.id/index.php/j3eituntan/article/view/40959>
- [15] J. Guerrero-Ibáñez, S. Zeadally, and J. Contreras-Castillo, “Sensor technologies for intelligent transportation systems,” Apr. 16, 2018, *MDPI AG*. doi: 10.3390/s18041212.
- [16] P. M. Widiaputra, I. K. A. Bawa, P. E. Suartawan, D. Fitriani, M. Aryuni, and R. R. O. Sasue, “Pengembangan Sistem LiDAR Pendeteksi Jarak Aman Berkendara,” vol. 9, Dec. 2022.
- [17] L. B. N. De Guzman and A. Raymond See, “Using Monocular Depth Estimation for Distance Estimation in a Moving Vehicle,” in *Proceedings - 2023 International Conference on Computer Graphics and Image Processing, CGIP 2023*, Institute of Electrical and Electronics Engineers Inc., 2023, pp. 19–22. doi: 10.1109/CGIP58526.2023.00012.
- [18] C. Wuthishuwong, C. Silawatchananai, and M. Parnichkun, “Navigation of an Intelligent Vehicle by using Stand-alone GPS, Compass and Laser Range Finder,” *International Conference on Robotics and Biomimetics*, Feb. 2009, doi: 10.1109/ROBIO.2009.4913330.

- [19] M. Jonák *et al.*, "Evaluation and Testing System for Automotive LiDAR Sensors," 2022, doi: 10.3390/app122413003.
- [20] Y. Li and J. Ibañez-Guzmán, "LiDAR for autonomous driving: the principles, challenges, and trends for automotive LiDAR and perception systems", *IEEE Signal Processing Magazine*, vol. 37, no. 4, p. 50-61, 2020. <https://doi.org/10.1109/msp.2020.2973615>
- [21] D. Lee and S. Kee, "Efficient camera–LiDAR calibration using accumulated LiDAR frames", *IEEE Access*, vol. 10, p. 132349-132362, 2022. <https://doi.org/10.1109/access.2022.3230463>
- [22] E. Martinez, "Optimal integration of sensors for autonomous vehicles," *IEEE Intelligent Transportation Systems Magazine*, vol. 12, no. 2, pp. 25–36, 2023.
- [23] J. Liu and D. Xu, "A Vehicle Monocular Ranging Method Based on Camera Attitude Estimation and Distance Estimation Networks," *World Electric Vehicle Journal*, vol. 15, no. 8, Aug. 2024, doi: 10.3390/wevj15080339.
- [24] J. Gubbi, R. Buyya, S. Marusic, and M. Palaniswami, "Internet of Things (IoT): A vision, architectural elements, and future directions," *Future Generation Computer Systems*, vol. 29, no. 7, pp. 1645–1660, Sep. 2013, doi: 10.1016/J.FUTURE.2013.01.010.
- [25] B. B. Abu-Khazna *et al.*, "The Making of a Safety Proximity Sensor with the Utilization of ESP32 and ESP32 Camera Integrated with Arduino Interface and a Buzzer Alert System," *Int J Innov Sci Res Technol*, pp. 2617–2624, May 2025, doi: 10.38124/ijisrt/25apr1956.
- [26] Y. H. Chang, F. C. Wu, and H. W. Lin, "Design and Implementation of ESP32-Based Edge Computing for Object Detection," *Sensors*, vol. 25, no. 6, Mar. 2025, doi: 10.3390/s25061656.
- [27] P. R. Setiawan, R. A. Ramadhan, D. A. Labellapansa, P. Koresponden, : Panji, and R. Setiawan, "Jurnal Pengabdian Masyarakat dan Penerapan Ilmu Pengetahuan Pelatihan Pemrograman Flutter."
- [28] R. Puspita Sari, S. Rahmayuda, J. Sistem Informasi, F. Mipa, U. Tanjungpura Jalan ProfDrH Hadari Nawawi, and P. Telp, "Coding : Jurnal Komputer dan Aplikasi IMPLEMENTASI FRAMEWORK FLUTTER PADA SISTEM INFORMASI PERPUSTAKAAN MASJID (Studi Kasus: Masjid di Kota Pontianak)."
- [29] N. Sofi, N. Nelly, and R. Dharmawan, "Perancangan aplikasi bengkel CSM berbasis Android menggunakan framework Flutter (bahasa Dart)," *Jurnal Teknik dan Science*, vol. 1, no. 2, pp. 53–64, 2022.

- [30] Y. Alfiyya, *Rancang bangun sistem pendeteksi kehadiran karyawan menggunakan Bluetooth Low Energy berbasis ESP32 dengan pemantauan secara realtime melalui situs web*, Doctoral dissertation, Universitas Negeri Jakarta, 2024.
- [31] D. Nugraha, A. Setiawan, and D. Pradana, "Camera calibration and distance measurement using low-cost embedded systems," *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 13, no. 2, pp. 1754–1764, Feb. 2023.
- [32] E. Octavia, R. Dijaya, A. Eviyanti, and N. L. Azizah, "Rancangan Bangun Sistem Keamanan Rumah Kost Berbasis IoT dengan ESP32-Cam," *Indonesian Journal of Applied Technology*, vol. 1, no. 3, pp. 16–16, 2024.
- [33] N. Cameron, "BLE Beacons," in *ESP32 Formats and Communication: Application of Communication Protocols with ESP32 Microcontroller*, Berkeley, CA: Apress, 2023, pp. 217–266.
- [34] N. Cameron, "ESP32-CAM Camera," in *ESP32 Formats and Communication: Application of Communication Protocols with ESP32 Microcontroller*, Berkeley, CA: Apress, 2023, pp. 447–488.
- [35] S. A. Arrahma dan R. Mukhaiyar, "Pengujian ESP32-CAM berbasis mikrokontroler ESP32," *JTEIN: Jurnal Teknik Elektro Indonesia*, vol. 4, no. 1, pp. 60-66, Feb. 2023.
- [36] Ian. Sommerville, *Software engineering*, Tenth. Boston: Pearson Education Limited, 2016.
- [37] R. Pressman dan B. Maxim, *Software Engineering: A Practitioner's Approach*, 8th ed., New York, NY, USA: McGraw-Hill Education, 2015.