

## DAFTAR PUSTAKA

- [1] V. E. Satya, "Strategi Indonesia Menghadapi Industri 4.0," *INFO Singkat*, vol. 10, no. 9, pp. 19-24, 2018.
- [2] S. M. Deotale, S. Dutta, J. A. Moses and C. Anandharamakrishnan, "Foaming and defoaming—concepts and their significance in food and allied industries: a review," *Discover*, vol. 3, no. 9, pp. 1-15, 2023.
- [3] E. Dachmann, V. Nobis, U. Kulozik and J. Dombrowski, "Surface and foaming properties of potato proteins: Impact of protein concentration, pH value and ionic strength," *ELSEVIER*, vol. 107, pp. 1-12, 2020.
- [4] S. M. Deotale, . S. Dutta, . J. A. Moses and . C. Anandharamakrishnan, "Foaming and defoaming—concepts and their significance in food and allied industries: a review," *Discover*, vol. 3, 2023.
- [5] P. Shahi, A. P. Deshmukh, H. Y. Hurnekar, S. Saini, P. Bansode, R. Kasukurthy and D. Agonafer, "Design, Development, and Characterization of a Flow Control Device for Dynamic Cooling of Liquid-Cooled Servers," *Journal of Electronic Packaging, Transactions of the ASME*, vol. 144, no. 4, pp. 1-9, 2021.
- [6] O. T. M. Altaee, A. M. T. I. Alnai and N. A. A. Aljawady, "Design and Realization of a Stepper Motor Driver with PLC," *Al-Kitab Journal for Pure Science*, vol. 1, no. 2, pp. 35-45, 2018.
- [7] D. Aliftinan, M. Rifa'i and M. Fauziya, "Kontrol Motor Stepper pada Mesin Pembuat Segitiga Komponen Packing Berbasis PLC-HMI," *Elkolind*, vol. 10, no. 3, pp. 387-396, 2023.
- [8] H. Prayogo and R. Hartayu, "Design and control of an automatic cable-cutting machine with the implementation of a stepper control program using PLC," *Gema Wiralodra*, vol. 14, no. 2, pp. 1281-1291, 2023.
- [9] S. Hassan, M. S. Yusof, Z. Embong, Q. E. Kamarudin, R. H. A. Haq, M. Ibrahim, K. R. Khairilhijra, O. M. F. Marwah, N. Sa'ude, M. Ismon and . M. A. Madlan, "A Study Of Frequency And Pulses For Stepper Motor Controller

- System By Using Programmable Logic Controller," *Journal of Physics: Conference Series*, vol. 1150, no. 1, pp. 1-5, 2019.
- [10] T. Patil, . P. Jain, S. Vishwakarma, P. Katiyar, K. Kumar and S. Namekar, "Integration of SCADA System with Existing PLC Setup to Control Induction Motor and Stepper Motor," *International Journal of Research in Engineering, Science and Management*, vol. 3, no. 6, pp. 407-410, 2020.
- [11] L. Kakkar, D. Gupta, S. Saxena and S. Tanwar, "IoT Architectures and Its Security : A Review," *Lecture Notes in Networks and Systems*, vol. 166, p. 87–94, 2021.
- [12] M. Hojati and A. Baktash, "Design and fabrication of a new hybrid stepper motor with significant improvements in torque density," *Engineering Science and Technology, an International Journal*, vol. 24, no. 5, pp. 1116-1122, 2021.
- [13] Y.-L. HUANG, C.-H. LIANG, B.-H. CHEN and C.-C. LAN, "Torque-Sensorless Control of Stepper Motors for Low-Cost Compliant Motion Generation," *IEEE Access*, vol. 9, pp. 94495-94504, 2021.
- [14] M. L. Ahmed, S. Kundu and M. Rafiquzzaman, "Automatic Bottle Filling System Using PLC Based Controller," *MAT Journals*, vol. 4, no. 1, pp. 17-24, 2019.
- [15] A. Kumar, P. Garg, A. Shankar and N. Kar, "Implementation of a Temperature Control Process Trainer Through PID Controller Designed with Siemens S7-1200 PLC and HMI," *Lecture Notes in Electrical Engineering*, vol. 537, pp. 453-460, 2019.
- [16] A. Salkić, H. Muhović and D. Jokić, "Siemens S7-1200 PLC DC Motor control capabilities," *International Federation of Automatic Control Papers OnLine*, vol. 55, no. 4, pp. 103-108, 2022.
- [17] Keyto, "Integrated drive piston pump specification --50XX Series," Shenzhen Keyto Fluid Control Co, 2022.
- [18] M. Khairudin, R. Asnawi and A. Shah, "The characteristics of TB6600 motor driver in producing optimal movement for the Nema23 stepper motor,"

*TELKOMNIKA Telecommunication, Computing, Electronics and Control*, vol. 18, no. 1, pp. 343-350, 2019.

- [19] X. Zhang, Y. Lu, Y. Li, C. Zhang and R. Wang, "Numerical calculation and experimental study on response characteristics of pneumatic solenoid valves," *Measurement and Control*, vol. 52, no. 9-10, pp. 1382-1393, 2019.
- [20] J. D. Katalin Ferencz, "Using Node-RED platform in an industrial," *Jubileumi Kandó Konferencia*, vol. XXXV, pp. 1-12, 2020.
- [21] G. Andrzejewska, W. Zając, K. Krzywicki, A. Karasińska, T. Królikowski and B. Bałaszb, "Implementation of an example of Hierarchical Petri Net (HPN) in LAD language in TIA Portal," *Procedia Computer Science*, vol. 192, pp. 3657-3666, 2021.
- [22] H. He, Y. Long and W. Yu, "Design and Simulation of Elevator Emergency System Based on TIA Portal V15.1," *Journal of Physics: Conference Series*, vol. 1802, pp. 1-5, 2020.
- [23] F. M. Arfan, N. N. Y. Pratiwi, T. D. Anggraeni, M. . V. Franola, W. Rahmadinni, W. Khairunisa and A. Saefullah, "Rancangan Alat Peraga Penyemprot Serangga Sederhana Pada Penerapan Hukum Bernoulli Dan Fluida Dinamis," *Eduproxima: Jurnal Ilmiah Pendidikan IPA*, vol. 5, pp. 21-27, 2023.
- [24] A. Andrada, R. Murdocca, C. Sosa and J. Dondo, "Didactic Prototype for Teaching the MQTT Protocol Based on Free Hardware Boards and Node-RED," *LATIN AMERICA TRANSACTIONS*, vol. 18, pp. 376-382, 2020.
- [25] R. K. Kodali and A. Anjum, "IoT Based Home Automation Using Node-RED," *Second International Conference on Green Computing and Internet of Things*, vol. 978, pp. 386-390, 2019.