

DAFTAR PUSTAKA

- [1] B. Z. Sandler, "Robotics: Designing the Mechanisms for Automated Machinery," in *Robotics: Designing the Mechanisms for Automated Machinery*, 2 ed., Beersheba, Academic Press, 1999, pp. 1-5.
- [2] U. Rembold, "Sensor-Based Robots: Algorithms and Architectures," in *Sensor-Based Robots: Algorithms and Architectures*, Berlin, 1991.
- [3] H. Oza, "Application of Virtual Reality Technology," 7 June 2017. [Online]. Available: <http://www.iamwire.com/2017/06/applications-virtual-reality-technology/153607>. [Accessed 26 October 2018].
- [4] S. Schechter, "What is Virtual Reality," 3 June 2015. [Online]. Available: <https://www.marxentlabs.com/what-is-virtual-reality/>. [Accessed 26 October 2018].
- [5] Brandon Hall Group, "The Impact and Potential of Virtual Reality Training in High-Consequence Industries," *Training Mag*, 25 January 2018. [Online]. Available: <https://trainingmag.com/impact-and-potential-virtual-reality-training-high-consequence-industries/>. [Accessed 26 October 2018].
- [6] Virtual Reality Society, "Virtual Reality Military," 2017. [Online]. Available: <https://www.vrs.org.uk/virtual-reality-military/>. [Accessed 26 October 2018].
- [7] R. Khan, J. Plahouras, B. C. Johnston, M. A. Scaffidi, S. Grover and C. M. Walsh, "Virtual reality simulation training for health professions trainees in gastrointestinal endoscopy.," *Cochrane Library*, London, 2018.
- [8] P. V. d. F. Paiva, L. d. S. Machado and T. V. V. Batista, "A Collaborative and Immersive VR Simulator for Education and Assessment of Surgical Teams," *2015 XVII Symposium on Virtual and Augmented Reality*, 2015.
- [9] D. Papp, "VR Telepresence Tank from Raspberry Pi, Google Cardboard, and Xbox Controller," 12 May 2016. [Online]. Available: <https://hackaday.com/2016/05/12/vr-telepresence-tank-from-raspberry-pi-google-cardboard-and-xbox-controller/>. [Accessed 26 October 2018].
- [10] E. Eriksson, *Design and Construction of a Self-Balancing Robot using PLC-programming tools*, Umea: Umeå University, 2016.
- [11] A. Tankala, "Deploy your First Deep Learning Neural Network Model using Flask, Keras, TensorFlow in Python," 16 July 2018. [Online]. Available:

<https://medium.com/coinmonks/deploy-your-first-deep-learning-neural-network-model-using-flask-keras-tensorflow-in-python-f4bb7309fc49>. [Accessed 28 October 2018].

- [12] D. H. Hanssen, "Programmable Logic Controllers: A Practical Approach to IEC 61131-3 Using CODESYS," in *Programmable Logic Controllers*, Tromsø, WILEY, 2015, pp. 353-354.
- [13] P. Miller , "Building a Two Wheeled Balancing Robot," University of Southern Queensland, Brisbane, Queensland, 2008.
- [14] I. B. Pratama, Helmi and Yudhi, "Kestabilan Sistem Pendulum Terbalik dengan Menggunakan Metode LQR," *Buletin Ilmiah Math, Stat, dan Terapannya (Bimaster)*, vol. VII, pp. 71-76, 2018.
- [15] Industrial Designers Society of America, "Segway Human Transporter," 2002. [Online]. Available: <http://www.idsa.org/awards/idea/automotive-transportation/segway-human-transporter>. [Accessed 28 October 2018].
- [16] Safer America, "californias new hoverboard law," 30 December 2015. [Online]. Available: <https://safer-america.com/californias-new-hoverboard-law/>. [Accessed 28 October 2018].
- [17] M. R. Fasya, "MENGENAL ROBOT LENGAN – ROBOT SERVO(MODUL 1 DAN 2)," Tulungagung, 2017.
- [18] O. Katsuhiko, *Modern Control Engineering* fifth edition, New York: Pratiience Hall, 2010.
- [19] M. Ali, "Pembelajaran Perancangan Sistem Kontrol PID Dengan Software Matlab," *Jurnal Edukasi@Elektro*, vol. 1, p. 1, Oktober 2004.
- [20] Hardana, *Belajar Mudah Mikrokontroler ARM STM32*, Jakarta Pusat: PT. Mitra Sinergi Optima, 2018.
- [21] J. Dee, "Pulse Width Modulation," SparkFun Electronics, 2013. [Online]. Available: <https://learn.sparkfun.com/tutorials/pulse-width-modulation/duty-cycle>. [Accessed 04 08 2020].
- [22] Pololu, "30:1 Metal Gearmotor 37Dx68L mm with 64 CPR Encoder," [Online]. Available: <https://www.pololu.com/product/2823>. [Accessed 28 October 2018].
- [23] Pololu, "30:1 Metal Gearmotor 37Dx68L mm with 64 CPR Encoder," [Online]. Available: <https://a.pololu-files.com/picture/0J6853.1200.jpg?6de155bc8ba5f8b0077ca61a5e5caed5>. [Accessed 28 October 2018].
- [24] InvenSense, "MPU-6000/MPU-6050 EV Board User Guide," InvenSense, California, 2011.

- [25] 3S-Smart Software Solutions GmbH, "CODESYS Control for Raspberry Pi SL V3 : CODESYS Store," [Online]. Available: <http://store.codesys.com/codesys-control-for-raspberry-pi-sl.html>.
- [26] 3S-Smart Software Solutions, "Download: CODESYS," 2016. [Online]. Available: <https://www.codesys.com/download.html>. [Accessed 28 October 2018].
- [27] Raspberry Pi Foundation, "Download: Raspberry Pi NOOBS," [Online]. Available: <https://www.raspberrypi.org/downloads/>. [Accessed 28 October 2018].
- [28] W. Junfeng and Z. Wanying, "Research on Control Method of Two-wheeled Self-balancing Robot," in *2011 Fourth International Conference on Intelligent Computation Technology and Automation*, Guangdong, 2011.
- [29] D. H. Hanssen, "Programmable Logic Controllers: A Practical Approach to IEC 61131-3 Using CODESYS," in *Programmable Logic Controllers*, Tromsø, WILEY, 2015, pp. 3-13.
- [30] B. Utomo and Munadi, "Analisa Forward dan Inverse Kinematics pada Simulator Arm Robot 5 Derajat Kebebasan," *Jurnal Teknik Mesin S-1*, vol. IV, 2013.
- [31] European Space Agency, "Researchers with the European Space Agency in Darmstadt, Germany, exploring virtual reality for controlling planetary rovers and satellites in orbit," Darmstadt, 2017.
- [32] Mixabest, "Wikimedia Commons," 7 March 2008. [Online]. Available: https://commons.wikimedia.org/wiki/File%3AMITSIBISHI_PLC_Panel.jpg. [Accessed 28 October 2018].
- [33] Raspberry Pi Foundation, "Raspberry Pi hardware," 2018. [Online]. Available: <https://www.raspberrypi.org/documentation/hardware/raspberrypi/README.md>. [Accessed 28 October 2018].
- [34] © 3S-Smart Software Solutions GmbH, Raspberry PI with Standard CODESYS V3, 2015.
- [35] Prometec, "Arduino Nano," January 2017. [Online]. Available: <http://prometec.mx/wp-content/uploads/2017/01/nano-2.jpg>. [Accessed 28 October 2018].
- [36] Arduino, "Arduino Board Nano," 2016. [Online]. Available: <https://www.arduino.cc/en/Main/ArduinoBoardNano>. [Accessed 28 October 2018].
- [37] G. Welch and G. Bishop, "An Introduction to the Kalman Filter," Chapel Hill, Department of Computer Science, 2006.
- [38] 3S-Smart Software Solutions GmbH, "Forum: CODESYS," [Online]. Available: <http://forum.codesys.com/>. [Accessed 28 October 2018].

- [39] Raspberry Pi Foundation, "Forum: Raspberry Pi," [Online]. Available: <https://www.raspberrypi.org/forums/>. [Accessed 28 October 2018].
- [40] Arduino, " Forum: Arduino," [Online]. Available: <https://forum.arduino.cc/>. [Accessed 28 October 2018].
- [41] InMoov Robot, "Open-Source 3D Printed Life-Sized Robot," [Online]. Available: <http://inmoov.fr/>. [Accessed 28 October 2018].
- [42] SparkFun Electronics, "Tutorial I2C," [Online]. Available: <https://learn.sparkfun.com/tutorials/i2c>. [Accessed 28 October 2018].
- [43] SparkFun Electronics, [Online]. Available: <https://cdn.sparkfun.com/assets/6/4/7/1/e/51ae0000ce395f645d000000.png>. [Accessed 28 October 2018].