



UNIVERSITAS NEGERI YOGYAKARTA

Graduate School Programme

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Master of Education in Electrical Engineering

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| Name | Prof. Ir. Moh. Khairudin, MT., Ph.D. | | |
| Expertise | Electrical Automation in Technical and Vocational Education | | |
| Academic Career | Professor | Institution | Year |
| | | Yogyakarta State University | 2002 |
| Academic Background | 1. Doctor Degree | University of Technology Malaysia | 2008-2011 |
| | 2. Master Degree | Institute of Technology Sepuluh November | 2004-2006 |
| | 3. Undergraduate Degree | Yogyakarta State University | 1998-2002 |
| Employment | Position | Employer | Period |
| | 1. Vice Dean of Academic Affairs and Cooperation | Faculty of Engineering Yogyakarta State University | 2019 - 2023 |
| | 2. Vice Dean of Academic Affairs and Cooperation | Faculty of Engineering Yogyakarta State University | 2016 - 2019 |
| | 3. Head of Electrical Engineering Vocational Program Study Program | Faculty of Engineering Yogyakarta State University | 2015 - 2016 |
| | 4. Head of Electrical Engineering Education Study Program | Faculty of Engineering Yogyakarta State University | 2012 - 2015 |
| | 5. Associate Chief Editor of Asian Journal of Vocational Education and Humanities | Malaysia | 2020 - present |
| | 6. Editor in Chief of The Journal of Technology and Vocational Education | Faculty of Engineering Yogyakarta State University | 2012- present |
| | 7. Robot Team Mentor of Yogyakarta State University | Faculty of Engineering Yogyakarta State University | 2012- present |
| Research and development projects over the last 5 years | 1. Basic Research Simlitabmas (Year II) "Design Of An Efficient Trajectory Control of an Autonomous Telepresence Robot." Periode: 2020 Amount of financing: IDR 83.000.000,- | | |
| | 2. Basic Research Simlitabmas (Year I) "Design Of An Efficient Trajectory Control Of An Autonomous Telepresence Robot." Periode: 2019 Amount of financing: IDR 104.000.000,- | | |
| | 3. Featured Research of PT Simlitabmas "Development of IoT-Based Integrated Control Light Sockets In An Effort To Realize Smart Building And Energy Saving Electricity." Periode: 2019 Amount of financing: IDR 180.000.000 ,- | | |

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| | <p>4. Indonesia-Taiwan Cooperation “The development of virtual reality- based E-laboratorium for technology education to support Green campus and low-cost education.” Periode: 2018 Amount of financing: IDR 75.000.000 ,-</p> <p>5. Indonesia-Malaysia Cooperation “Development of trajectory control of a bomb disposal robot using an image processing and internet of things.” Periode: 2017 Amount of financing: IDR 100.000.000 ,-</p> <p>6. Basic Research Simlitabmas (Year 3) “Development of Fetal Prediction Tools In The Womb Using Ultrasonography Image Segmentation (ULTRASOUND) In An Effort to Realize Cheap Health.” Periode: 2017 Amount of financing: IDR 150.000.000,-</p> <p>7. Basic Research Simlitabmas (Year 2) “Development of Fetal Prediction Tools In The Womb Using Ultrasonography Image Segmentation (ULTRASOUND) In An Effort to Realize Cheap Health.” Periode: 2016 Amount of financing: IDR 150.000.000,-</p> <p>6. DIPA UNY “Development of Human Machine Interface Based Automatic Control System To Facilitate (User Friendly).” Periode: 2016 Amount of financing: IDR 15.000.000,-</p> <p>7. Basic Research Simlitabmas (Year 1) “Development of Fetal Prediction Tools In The Womb Using Ultrasonography Image Segmentation (ULTRASOUND) In An Effort to Realize Cheap Health.” Periode: 2015 Amount of financing: IDR 150.000.000,-</p> <p>7. Simlitabmas Competing Grants “Effectiveness of Metode Problem Based Learning On Control System Balance Robot Manipulator With Neural Network Backpropagation).” Periode: 2015 Amount of financing: IDR 50.000.000,-</p> <p>8. DIPA UNY “Swing Control System On Robot Racket Arm Based Combination Proximity Sensor And Pneumatic.” Periode: 2015 Amount of financing: IDR 10.000.000,-</p> |
| Industry collaborations/ education institution over the last 5 years | |
| Patents and proprietary rights | <ol style="list-style-type: none"> 1. Robust Control System (2018). UNY Press 2. Development of fetal sensing methods in Content (2018). 3. Automatic Control Based System Matlab (2015). UNY Press 4. Two-Link Bending Arm Robot with Built-in Load Variations (2015). HKI.3- HI.05.01.02.P0020 1507652 |
| Important publications over the last 5 years | <ol style="list-style-type: none"> 1. M Khairudin, M Iskandar, I Djatmiko, I Nashir. (2020). Virtual Trainer for Mobile Augmented Reality Based Electrical Lighting Installation. International Association of Online Engineering. Link: https://www.online-journals.org/index.php/i-jim/article/view/12397 |

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| | <p>2. M Khairudin, R Asnawi, A Shah. (2020). The characteristics of TB6600 motor driver in producing optimal movement for the Nema23 stepper motor on CNC machine. <i>Telkomnika</i> 18 (1). Link: https://search.proquest.com/openview/c328f808f2d51ada974624ee8c0b4e26/1.pdf?pq-origsite=gscholar&cbl=376296</p> |
| | <p>3. M Khairudin, SP Herlambang, HI Karim, MNA Azman. (2020). Vision-Based Mobile Robot Navigation for Suspicious Object Monitoring in Unknown Environments. <i>Journal of Engineering Science & Technology</i> 15 (1), 152-166. Link: http://jestec.taylors.edu.my/Vol%2015%20issue%201%20February%202020/15_1_12.pdf</p> |
| | <p>4. M Khairudin, HA Wijaya. (2020). Converter matlab fuzzy inference to arduino Csystem. <i>Journal of Physics: Conference Series</i> 1456 (1), 012010. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1456/1/012010</p> |
| | <p>5. M Khairudin, GW Lanang, A Arifin. (2020). Attadance system using infrared sensors. <i>Journal of Physics: Conference Series</i> 1456 (1), 012012. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1456/1/012012</p> |
| | <p>6. M Khairudin, N Parwantiningsih, E Panji, R Prayoga. (2020). Water level control system using silicon controlled rectifier. <i>Journal of Physics: Conference Series</i> 1456 (1), 012013. Link: https://ui.adsabs.harvard.edu/abs/2020JPhCS1456a2013K/abstract</p> |
| | <p>7. M Khairudin, DY Syarif. (2020). Attadance system in the teaching and learning process using RFID smart cards. <i>Journal of Physics: Conference Series</i> 1456 (1), 012011. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1456/1/012011</p> |
| | <p>8. M Khairudin, A Kurnianto, S Yatmono, HS Pramono, KI Ismara, JN Rohman. (2020). The motion control of three-phase motor using wireless communication: design and experimental works. <i>Journal of Physics: Conference Series</i> 1456 (1), 012009. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1456/1/012009</p> |
| | <p>9. M Khairudin, F Wulandari, D Mardapi. (2020). Implementation of Computer Bases Assessment on Students' Aptitude Using Online and Multimedia Test for Talent Mapping. <i>Journal of Physics: Conference Series</i> 1456 (1), 012059. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1456/1/012059</p> |
| | <p>10. DY Prasetyo, M Khairudin. (2020). Development of computer adaptive testing on the subject of Digital and Communication Simulation using item theory responses. <i>Journal of Physics: Conference Series</i> 1446 (1), 012058. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1446/1/012058</p> |
| | <p>11. M Khairudin. (2020). Dynamic analysis and modeling of three-dimensional crane incorporating payload. <i>Journal of Physics: Conference Series</i> 1446 (1), 012003. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1446/1/012003</p> |
| | <p>12. S Yatmono, M Khairudin, HS Pramono, A Asmara. (2019). Development of Intelligent Floor Cleaning Robot. <i>Journal of Physics: Conference Series</i> 1413 (1), 012014. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1413/1/012014</p> |
| | <p>13. M Iskandar, M Khairudin. (2019). Learning Media of Electric Lighting Installation Based on Mobile Augmented Reality. <i>Journal of Physics: Conference Series</i> 1413 (1), 012024. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1413/1/012024</p> |
| | <p>14. HA Wijaya, M Khairudin. (2019). Development of Arduino Assisted Microcontroller Instructional Devices in Vocational High Schools. <i>Journal of Physics: Conference Series</i> 1413 (1), 012015. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1413/1/012015</p> |
| | <p>15. A Shah, S Suhailiezana, CC Kob, M Khairudin. (2019). Effectiveness of m-Learning Applications for Design and Technology Subject. <i>International Association of Online Engineering</i>. Link: https://www.researchgate.net/publication/336056169_Effectiveness_of_m-Learning_Applications_for_Design_and_Technology_Subject</p> |
| | <p>16. AN Amri, MNA Azman, TT Kiong, M Khairudin. (2019). Effectiveness of Teaching Aids (SMART COT) in The Basis of Furniture Making National High School Daily Special Education Level One. <i>Journal of Vocational Education Studies</i> 2 (1), 23-36. Link: https://core.ac.uk/reader/267886330</p> |
| | <p>17. M Khairudin, GD Chen, MC Wu, R Asnawi, N Nurkhamid. (2019). Control of a movable</p> |

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| | <p>robot head using vision-based object tracking. International Journal of Electrical & Computer 9 (4), 2503-2512. Link: https://pdfs.semanticscholar.org/a012/f69ddb594f9795dce5a6363c04fbd39c9d42.pdf</p> |
| 18. | <p>IM Nashir, A Yusoff, M Khairudin, M Ridzuan, NNIM Idris. (2019). Delphi Method: The Development of Robotic Learning Survey in Tertiary Education. Journal of Vocational Education Studies 2 (1), 13-22. Link: https://core.ac.uk/download/pdf/267886324.pdf</p> |
| 19. | <p>M Khairudin. (2019). Developing a control system for a racket-wielding robot using a combination of promoximity sensor and pneumatic actuator to optimize shuttlecocck hit. IOP Conference Series: Materials Science and Engineering 535 (1), 012012. Link: https://iopscience.iop.org/article/10.1088/1757-899X/535/1/012012</p> |
| 20. | <p>M Khairudin, AD Hastutiningsih, THT Maryadi, HS Pramono. (2019). Water level control based fuzzy logic controller: simulation and experimental works. IOP Conference Series: Materials Science and Engineering 535 (1), 012021. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1456/1/012013</p> |
| 21. | <p>FA Ghozali, R Asnawi, M Khairudin, MP Jati, A Hoirul. (2019). Designing a Skill Tree Model for Learning Media. Journal of Technology and Vocational Education 25 (1), 132-140. Link: https://journal.uny.ac.id/index.php/jptk/article/view/20234</p> |
| 22. | <p>L Sugiyanta, M Sukardjo, M Khairudin, IM Nashir. (2019). Vocational Curriculum Implementation of the Three Years Program of Electronics Engineering. Journal of Technology and Vocational Education 25 (1), 85-96. Link: https://journal.uny.ac.id/index.php/jptk/article/view/18347</p> |
| 23. | <p>M Khairudin, AK Triatmaja, WJ Istanto, MNA Azman. (2019). Mobile virtual reality to develop a virtual laboratorium for the subject of digital engineering. International Association of Online Engineering. Link: https://www.online-journals.org/index.php/i-jim/article/view/10522/0</p> |
| 24. | <p>M Khairudin, KI Ismara, S Soeharto. (2019). Improving character education through industrial ethics using a model of private sector cooperation. Link:</p> |
| 25. | <p>MN Mohd Nawawi, N Mohd Nasir, MNA Azman, J Jumintono, M Khairudin. (2019). Investigation factors of delay in IBS construction project: manufacturer perspectives. Journal of Engineering Science and Technology, 59-66. Link: http://repo.uum.edu.my/26099/</p> |
| 26. | <p>Mohd Erfy Ismail, Pipit Utami, Irwan Mahazir Ismail, Moh Khairudin, Mohd Hasril Amiruddin, Badraningsih Lastariwati, Nopadon Maneetien. (2018). The Effect of an Augmented Reality Teaching Kit on Visualization, Cognitive Load and Teaching Styles. Jurnal Pendidikan Teknologi dan Kejuruan 24 (2), 178-184. Link: https://journal.uny.ac.id/index.php/jptk/article/view/20031</p> |
| 27. | <p>P Budiastuti, M Khairudin, MNA Azman. (2018). E-Instructional Multimedia in Basic Concepts of Electrical and Electronic Lessons. Jurnal Pendidikan Teknologi dan Kejuruan 24 (2), 262-269. Link: https://journal.uny.ac.id/index.php/jptk/article/view/18714/11207</p> |
| 28. | <p>AK Triatmaja, M Khairudin. (2018). Study on Skill Improvement of Digital Electronics Using Virtual Laboratory with Mobile Virtual Reality. Proceeding of International Conference of Electrical, Electronics, Informatics and Vocational Education, Yogyakarta, Indonesia. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1140/1/012021</p> |
| 29. | <p>Mohd Erfy Ismail, Norhasyimah Hamzah, Arihasnida Ariffin, Irwan Mahazir Ismail, Khairul Azhar Mat Daud, Pipit Utami, Moh Khairudin. (2018). The acceptance of MOOC among TVET students in higher education: An observation. Journal of Technology and Vocational Education 15 (2). Link: https://ejournal.undiksha.ac.id/index.php/JPTK/article/viewFile/14183/9440</p> |
| 30. | <p>M Khairudin, T Maryadi. (2018). Development of Neural Network Controller for A Two-Link Flexible Manipulator. International Conference on Indonesian Technical Vocational Education and Association (APTEKINDO 2018). Link: https://www.atlantis-press.com/proceedings/aptekindo-18/25903523</p> |
| 31. | <p>Mohd Erfy Ismail, Suhaizal Hashim, Irwan Mahazir Ismail, Affero Ismail, Nizamuddin Razali, Khairul Azhar Mat Daud, Moh Khairudin. (2018). The use of massive open online course (MOOC) among vocational students. Journal of Nusantara Studies (JONUS) 3 (1), 30-41.</p> |

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| | Link: https://journal.unisza.edu.my/jonus/index.php/jonus/article/view/215 |
| 32. | M Khairudin , Efendi, N Purwatiningsih, W Irawan. (2018). The implementation of silicon controlled rectifiers for DC motor control . AIP Conference Proceedings 1977 (1), 030035. Link: https://aip.scitation.org/doi/10.1063/1.5042955 |
| 33. | M Khairudin , S Riyanto, Z Mohammed. (2018). Development of Fuzzy Logic Control for Indoor Lighting Using LEDs Group . Telkonnika 16 (3), 1165-1173. Link: http://journal.uad.ac.id/index.php/TELKOMNIKA/article/view/8048 |
| 34. | H Raharjo, M Khairudin , J Abd Baser. (2018). The influence of problem-based learning and direct teaching on students' learning outcomes . Journal of Technology and Vocational Education 24 (1), 62-71. Link: https://journal.uny.ac.id/index.php/jptk/article/view/18015 |
| 35. | EA Juanda, N Wahidah, M Khairudin , Z Mohamed. (2018). Implementation of a Raspberry Pi Trainer for the Subject of Microprocessors and Microcontrollers in Vocational High Schools . Journal of Technology and Vocational Education 24 (1), 147-154. Link: https://journal.uny.ac.id/index.php/jptk/article/view/18428 |
| 36. | M Khairudin . (2018). Expansion of point d interet point d'action legal basis on filing a lawsuit as a result of the loss of life of a minor . Link: http://www.lontar.ui.ac.id/detail?id=20475346&lokasi=lokal |
| 37. | M Khairudin . (2018). PID Control for a Manipulator Robot Using Internet Networking and Matlab-based . Journal of Physics Conference Series 1140, 012004. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1140/1/012004 |
| 38. | M Khairudin , S Adyarno. (2018). Solar Tracker on Solar Home System to Optimize Sunlight Absorption . Journal of Physics: Conference Series 1140 (1), 012005. Link: https://iopscience.iop.org/article/10.1088/1742-6596/1140/1/012005 |
| 39. | M Khairudin , BTJ Laras, D Irmawati. (2017). Region of interest detection for pregnancy image processing . 2017 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI). Link: http://lppm.uny.ac.id/sites/lppm.uny.ac.id/files/abstrak-id_18_0.pdf |
| 40. | A Tafrikhatin, FP Marsyaly, M Khairudin . (2017). Development of a Mobile Learning for Digital Logic Gates in Vocational Schools . International Conference on Technology and Vocational Teachers (ICTVT 2017). Link: https://www.atlantis-press.com/proceedings/ictvt-17/25884508 |
| 41. | M Suharni, DLB Taruno, M Khairudin . (2017). Analysis of Supporting Components for Quality Standards in Teacher Education and Vocational Training . International Conference on Technology and Vocational Teachers (ICTVT 2017). Link: https://www.atlantis-press.com/proceedings/ictvt-17/25884527 |
| 42. | M Khairudin , F Surwi. (2017). Development of the Automatic Control System Based On Human Machine Interface . International Conference on Technology and Vocational Teachers (ICTVT 2017). Link: https://www.atlantis-press.com/proceedings/ictvt-17/25884490 |
| 43. | ES Damarwan, M Khairudin . (2017). Development of an interactive learning media to improve competencies . International Conference on Technology and Vocational Teachers (ICTVT 2017). Link: https://www.atlantis-press.com/proceedings/ictvt-17/25884485 |
| 44. | J Abd Baser, A Hasan, S Ismail, SK Omar, MAM Jizat, M Khairudin . (2017). Involvement of Person with Physical Disabilities (PWD) in Technical Skills Field Employment . International Conference on Technology and Vocational Teachers (ICTVT 2017). Link: https://www.atlantis-press.com/proceedings/ictvt-17/25884539 |
| 45. | J Abd Baser, A Hasan, AH Asha'ri, M Khairudin . (2017). A Study on the Transferable Skills of the Engineering Students at Universiti Tun Hussein Onn Malaysia . Jurnal Pendidikan Teknologi dan Kejuruan 23 (3), 257-264. Link: https://journal.uny.ac.id/index.php/jptk/article/download/13419/9404 |
| 46. | S Marfu'ah, IW Djatmiko, M Khairudin . (2017). Learning goals achievement of a teacher in professional development . Jurnal Pendidikan Teknologi dan Kejuruan 23 (3), 295-303. Link: https://media.neliti.com/media/publications/163751-EN-learning-goals-achievement-of-a-teacher.pdf |
| 47. | M Khairudin . (2016). Quantitative Feedback Theory-Based Robust Control for a Spindle of Lathe Machine . International Journal on Smart Sensing & Intelligent Systems 9 (4). |

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| | <p>Link: http://s2is.org/Issues/v9/n4/papers/paper7.pdf</p> <p>48. M Khairudin, D Irmawati. (2016). Comparison methods of edge detection for USG images. 2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE). Link: http://staff.uny.ac.id/sites/default/files/pengabdian/moh-khairudin/pid4471391.pdf</p> <p>49. M Khairudin, R Asnawi, SP Herlambang, TM Totok Heru, A Candra, T Sukisno. (2016). Curriculum Development of Vocational Education for Electrical Engineering Refers to the National Qualification Framework for Standarizing Student Competence's. PRCEEDINGS. Link:</p> <p>50. M Khairudin. (2016). Comparison Methods for Converting a Spindle Plant to Discrete System. Indonesian Journal of Electrical Engineering and Computer Science 1 (3), 575-582. Link: http://ijeecs.iaescore.com/index.php/IJECS/article/view/305</p> <p>51. Z Mohamed, M Khairudin, AR Husain, B Subudhi. (2016). Linear matrix inequality-based robust proportional derivative control of a two-link flexible manipulator. Journal of vibration and control 22 (5), 1244-1256. Link: http://staff.uny.ac.id/sites/default/files/pengabdian/moh-khairudin/journal-vibration-and-control-2016-mohamed-1244-56used.pdf</p> <p>52. M Khairudin, D Irmawati. (2015). Comparison methods of noise elimination for pregnancy image processing. 2015 2nd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE). Link: https://ieeexplore.ieee.org/abstract/document/7437810</p> <p>53. M Khairudin. (2015). Robust control design for a spindle of lathe machine. 2015 2nd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE). Link: https://ieeexplore.ieee.org/abstract/document/7437804/</p> <p>54. M Khairudin, RN Ridho. (2015). Automatic Control System Development of Whiteboard Marker Ink Recharging Process. Jurnal Teknologi Technoscintia, 39-46. Link: https://ejournal.akprind.ac.id/index.php/technoscintia/article/download/188/122</p> <p>55. M Khairuddin, JA Sadewa. (2015). Design and Implementation of Ppr Light Intensity Control System Using SMS Based Remote Control. Sinergi 19 (2), 77-84. Link: https://core.ac.uk/display/91117243</p> <p>56. M Khairudin. (2015). Two-Link Flexible Manipulator as an Alternative in Improving Energy Efficiency of Manipulator Robot. Jurnal Penelitian Saintek 20 (2). Link: https://journal.uny.ac.id/index.php/saintek/article/view/9594/pdf</p> |
| Activities in specialist bodies over the last 5 years | <ol style="list-style-type: none"> 1. Member of Institute of Electrical & Electronics Engineer (IEEE) 2. Member of International Institute of Acoustic & Vibration (IIAV) 3. Member of Indonesian Electrical Engineering Forum 4. Members of The Indonesian Vocational College Forum 5. Association of Vocational Lecturers and Teachers |