STAFF HANDBOOK
Electrical Engineering

Institut Teknologi Kalimantan

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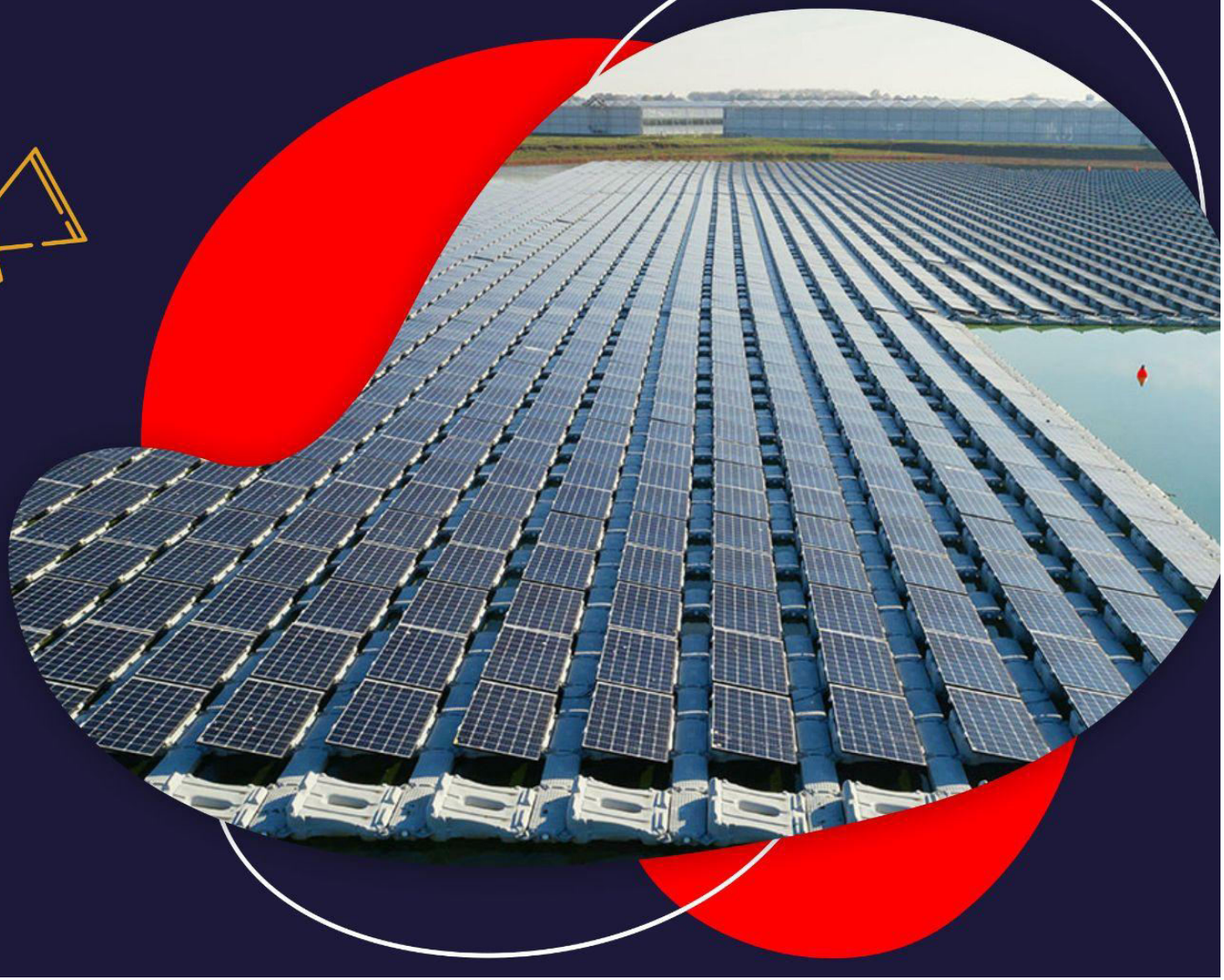

Name	*Adi Mahmud Jaya Marindra*		
Post	*Electronics and Telecommunication*		
Academic career	*Doctorate (Electrical and Electronic Engineering)* *Master Degree (Computer Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Newcastle University, UK* *KMITL, Thailand* *UGM, Indonesia*	*2021* *2013* *2010*
Employment	*Lecturer* *Research Assistant* *Research Assistant*	*ITK, Indonesia* *Newcastle Railway Research Centre (NewRail)* *National Science and Technology Development Agency (NSTDA), Thailand*	*2015-now* *2018-2020* *2013-2015*
Research and development projects over the last 5 years	1. *Sistem Sensor Berbasis Radio Frequency Identification (RFID) untuk Pelacakan dan Monitoring Kualitas Produk Pangan Secara Non-invasif, 2021, LPPM ITK, Rp 28.490.000,00* 2. *INNOWAG: INNOvative monitoring and predictive maintenance solutions on lightweight WAGon, 2016-2019, NewRail, Shift2Rail Joint Undertaking, €1500562*		
Industry collaborations over the last 5 years	1. *IoT-enabled fire detector, 2020, KabelFree Ltd, ERDF (European Regional Development Fund)* 2. *Project ARSS (Active Radial Suspension System) for rail vehicle, 2019-2020, NewRail, LIEBHERR, RSSB (Rail Safety and Standards Board), UK*		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Marindra, A.M.J. and Tian, G.Y., 2020. Chipless RFID sensor for corrosion characterization based on frequency selective surface and feature fusion. Smart Materials and Structures, 29(12), p.125010.* 2. *Marindra, A.M.J. and Tian, G.Y., 2019. Multiresonance chipless RFID sensor tag for metal defect characterization using principal component analysis. IEEE Sensors Journal, 19(18), pp.8037-8046.* 3. *Marindra, A.M.J. and Tian, G.Y., 2018. Chipless RFID sensor tag for metal crack detection and characterization. IEEE Transactions on Microwave Theory and Techniques, 66(5), pp.2452-2462.* 4. *Zhang, J., Tian, G.Y., Marindra, A.M., Sunny, A.I. and Zhao, A.B., 2017. A review of passive RFID tag antenna-based sensors and systems for structural health monitoring applications. Sensors, 17(2), p.265.* 5. *Marindra, A.M.J., Sutthaweekul, R. and Tian, G.Y., 2018, July. Depolarizing chipless RFID sensor tag for characterization of metal cracks based on dual resonance features. In 2018 10th International Conference on Information Technology and Electrical Engineering (ICITEE) (pp. 73-78). IEEE.*		
Activities in specialist bodies over the last 5 years	-		

Name	*Amalia Rizqi Utami*		
Post	*Telecommunication*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Computer Engineering)*	*Institut Teknologi Bandung, Indonesia* *Universitas Telkom, Indonesia*	*2020* *2017*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2020-now*
Research and development projects over the last 5 years	*-*		
Industry collaborations over the last 5 years	*-*		
Patents and proprietary rights	*-*		
Important publications over the last 5 years	*Selected recent publications:* *1. Utami, A.R., 2019, October. Resource Allocation Analysis with Genetic Algorithm in LTE MIMO-OFDMA Cellular System. In 2019 IEEE 13th International Conference on Telecommunication Systems, Services, and Applications (TSSA) (pp. 182-185). IEEE.* *2. AR Utami, Iskandar, Optimization Subcarrier Allocation and Genetic Algorithm for Resource Allocation in MIMO-OFDMA, 2018 International Symposium on Electronics and Smart Devices (ISESD) (pp. 1-4). IEEE.* *3. AR Utami, Optimization of Resource Block Allocation with Genetic Algorithm in MIMO-OFDMA, Risenologi, 6(1b), 1-5, 2021.*		
Activities in specialist bodies over the last 5 years	*IAENG*	*Member*	*2022*

Name	*Andhika Giyantara*		
Post	*Control System*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2016* *2009*
Employment	*Lecturer* *Electrical Engineer*	*Institut Teknologi Kalimantan, Indonesia* *PT. Kaltim Prima Coal, Sangatta, Kalimantan Timur, Indonesia*	*2016 - Now* *2009 - 2013*
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	1. *Battery Management System (2020), Pertamina - DPPU Sepinggan, Balikpapan & PT. Ruang Cipta Teknologi* 2. *Cooling Water Pump Control Systems (2020), PT. PJB UBJOM PLTU Kaltim Teluk, Balikpapan & PT. Ruang Cipta Teknologi* 3. *Tank Level and Temperature Control Systems (2020), PT. Kutai Refinery Nusantara (Apical Group), Balikpapan & PT. Ruang Cipta Teknologi*		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Giyantara, A., Rizqullah, R.B. and Priyanto, Y.T.K., 2021. Analysis of Partial shading Effect on Solar Panel Power Output. In Journal of Physics: Conference Series (Vol. 1726, No. 1, p. 012022). IOP Publishing.* 2. *Mudeng, V., Priyanto, Y. and Giyantara, A., 2018. Image reconstruction for frequency-domain diffuse optical tomography. Turkish Journal of Electrical Engineering & Computer Sciences, 26(5), pp.2287-2300.* 3. *Giyantara, A., Mudeng, V., Natiand, H.S. and Afif, M.I.A., 2018, December. Microcontroller Serial Communication to Analyze Bit Characters. In 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME) (pp. 223-227). IEEE.* 4. *Priyanto, Y.T.K., Mudeng, V., Giyantara, A., Fahdian, A. and Achmadi, B.W.A., 2018, December. A Comprehensive Study of Alternating Current Voltage Sensor Using Rectifier and Operational Amplifier. In 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME) (pp. 321-325). IEEE.*		
Activities in specialist bodies over the last 5 years	*International Association of Engineer (IAENG)* *Forum Temu Teknik Elektro Indonesia (FORTEI)* *Persatuan Insinyur Indonesia*	*Member* *Member* *Member*	*2017 - Now* *2022* *2022*

Name	*Barokatun Hasanah*		
Post	*Telecommunication*		
Academic career	*Master degree (telecommunication engineering)* *Undergraduate degree (electrical engineering)*	*Institut Teknologi Bandung, Indonesia* *University of Lampung, Indonesia*	*2012-2014* *2008-2012*
Employment	*Lecturer* *Lecturer*	*Institut Teknologi Kalimantan, Indonesia* *Indonesia University of Computer (UNIKOM), Indonesia*	*2017 - now* *2016*
Research and development projects over the last 5 years	1. *Evaluasi Objektif Performa Openbts Blade RF XA-40 dengan Metode PESQ (Perceptual Evaluation of Speech Quality), 2021, LPPM ITK, Rp. 20.000.000* 2. *Desain dan Perancangan OpenBTS sebagai Media Pembelajaran Teknologi GSM di Institut Teknologi Kalimantan, 2020, Kementerian RIset, Teknologi dan Pendidikan Tinggi, Rp. 20.000.000* 3. *Peningkatan Performansi Perangkat Radio Frekuensi Gelombang Mikro, 2020, Institut Teknologi Bandung, LPPM ITK, Rp. 30.000.000* 4. *Rancang Bangun Antena Microstrip Menggunakan Material Dielektrik Artifisial Pada Frekuensi 2.4 Ghz, 2019, LPPM ITK, Rp. 20.000.000* 5. *Implementasi band pass filter menggunakan circular waveguide berbasis resonator dielektrik artifisial untuk mode propagasi transfer elektrik, 2018, LPPM ITK, Rp. 10.000.000*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Hasanah, B., Filiana, F., Ismail, A.I., Munir, A. and Herdiana, D., 2021, April. Implementation of Circular Waveguide Band Pass Filter using Artificial Dielectric Resonator for Transverse Electric Propagation Mode. In 2021 IEEE Asia Pacific Conference on Wireless and Mobile (APWiMob) (pp. 95-98). IEEE.* 2. *Munir, A., Novianti, I. and Hasanah, B., 2020, February. Experimental Investigation of ADM-based Microstrip Square Patch Antenna with Resonant Frequency Lowering Characteristic. In 2020 International Workshop on Antenna Technology (iWAT) (pp. 1-4). IEEE.* 3. *Hasanah, B. and Farid, M.N., 2019, December. Analysis of Artificial Dielectric Material Effect on The Performance of Microstrip Antennas. In 2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI) (pp. 137-141). IEEE.* 4. *Hasanah, B., Arinaldo, D., Pasaribu, S., Bharata, E., Effendi, M.R., Santiko, A.B. and Munir, A., 2019, October. Verification Design of Up-Down Frequency Converter Based on Double-Balanced Mixer and Its Performance Characterization. In 2019 IEEE 13th International Conference on Telecommunication Systems, Services, and Applications (TSSA) (pp. 290-293). IEEE.* 5. *Hasanah, B., Filiana, F., Mudeng, V. and Andhara, A.R., 2018, December. Circular Waveguide Band Pass Filter Composed of Artificial Dielectric Resonators for Transverse Electric Propagation Mode. In 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME) (pp. 179-183). IEEE.*		
Activities in specialist bodies over the last 5 years	-		

Name	*Firilia Filiana*		
Post	*Power System*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2017* *2015*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2017 - now*
Research and development projects over the last 5 years	1. *Voltage Control in Mahakam Electric Power System Due to Solar Panel Injection, 2021, LPPM ITK, Rp. 10.425.000* 2. *Performance Improvement of Microwave Radio Frequency Devices Using Artificial Dielectric Materials, 2020, LPPM ITK, Rp. 30.000.000* 3. *Potential Renewable Energy Sources From Biomass Coming From Natural Resources In Balikpapan, 2020, LPPM ITK, Rp. 15.000.000* 4. *Design a Economic Bionic Arm Using Open Source Technology, 2019, DPRM KEMENRISTEKDIKTI, Rp. 39.775.000* 5. *Analysis of the Use of Protection Relays as Equipment Protection and Determination of PPE in Distribution Networks Due to Short Circuit Interference, 2019, LPPM ITK, Rp. 17.613.000* 6. *Implementation of a band pass filter using a circular waveguide based on an artificial dielectric resonator for electrical transfer propagation mode, 2018, LPPM ITK, Rp. 10.000.000*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Filiana, F., Farid, M.N. and Abdillah, M., 2019, December. ZSI Application for Reducing the Energy Incident of Arc Flash in a Distribution System. In 2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI) (pp. 379-383). IEEE.* 2. *Filiana, F.; Kusuma P., Y.; Andira, K. and Farid, M. (2020). Arc Flash and ZSI Analysis for Personal and Equipment Protection in Distribution System. In Proceedings of the 1st International Conference on Industrial Technology - ICONIT, ISBN 978-989-758-434-3, pages 213-220.* 3. *Hasanah, B., Filiana, F., Mudeng, V. and Andhara, A.R., 2018, December. Circular Waveguide Band Pass Filter Composed of Artificial Dielectric Resonators for Transverse Electric Propagation Mode. In 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME) (pp. 179-183). IEEE.* 4. *Filiana, F., Priyadi, A., Purnomo, M.H. and Yorino, N., 2017, August. Critical trajectory method for calculating CCT considering radial and single circuit systems. In 2017 International Seminar on Intelligent Technology and Its Applications (ISITIA) (pp. 81-86). IEEE.*		
Activities in specialist bodies over the last 5 years	-		

Name	*Happy Aprillia*		
Post	*Power System, Forecasting Algorithm, Artificial Intelligent*		
Academic career	*Doctoral Degree (Electrical Engineering)* *Master degree (Power System Engineering & Energy)* *Undergraduate degree (Industrial Electrical Engineering)*	*National Cheng Kung University, Taiwan* *Institut Teknologi Sepuluh Nopember, Indonesia & Asian Institute of Technology, Thailand* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2020* *2012* *2008*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2015-now*
Research and development projects over the last 5 years	*1. Sustainable Design of Electrical Installation at Campus of Institut Teknologi Kalimantan, 2020-2021, PT. Duta Fuji Electric - PT. Pandu Persada, IDR 10.000.000* *2. Intelligent Forecast and Analysis Technique for Renewable Energy System Project, 2019-2020, Ministry of Science and Technology (MOST), Taiwan, TWD 13.289.000* *3. NCKU and Delta Electronics 2018 Joint Research Program, 2017-2019, MOST Taiwan* *4. Power quality improvement of transmission and distribution system and development and operation planning of substituting transmission technology, 2016-2017, MOST, Taiwan - Delta Electronics* *5. Implementation of Wireless Sensor Infrastructure on Water Consumption and Quality in Monitoring System of Residence, 2016-2017, IDR 12.400.000 & IDR 10.000.000.*		
Industry collaborations over the last 5 years	*1. Assistance of Electricity Supply Business Plan Documents, PT Puncakjaya Power* *2. Power Metering Assessment on Generator Sets of Wilmar Group Company, Regional Tax and Levy Management Agency - Balikpapan City*		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* *1. Lateko, A.A., Yang, H.T., Huang, C.M., Aprillia, H., Hsu, C.Y., Zhong, J.L. and Phương, N.H., 2021. Stacking Ensemble Method with the RNN Meta-Learner for Short-Term PV Power Forecasting. Energies, 14(16), p.4733.* *2. Aprillia, H., Yang, H.T. and Huang, C.M., 2020. Statistical load forecasting using optimal quantile regression random forest and risk assessment index. IEEE Transactions on Smart Grid, 12(2), pp.1467-1480.* *3. Aprillia, H., Yang, H.T. and Huang, C.M., 2020. Short-term photovoltaic power forecasting using a convolutional neural network–salp swarm algorithm. Energies, 13(8), p.1879.* *4. Aprillia, H., Yang, H.T. and Huang, C.M., 2019. Optimal decomposition and reconstruction of discrete wavelet transformation for short-term load forecasting. Energies, 12(24), p.4654.*		
Activities in specialist bodies over the last 5 years	*IEEE* *Hindawi*	*Invited Reviewer* *Invited Reviewer*	*2016-now* *2021-now*

Name	*Himawan Wicaksono*		
Post	*Computer Vision, Biomedical Engineering*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Politeknik Elektronik Negeri Surabaya, Indonesia*	*2015* *2012*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2015 - Now*
Research and development projects over the last 5 years	*1. Pengembangan Instrumen Perekam Penggunaan Kecepatan Dan Kemiringan Jalan Kendaraan Bermotor, 2021, LPPM ITK, Rp. 20.000.000,-* *2. EVALUASI OBJEKTIF PERFORMA OPENBTS BLADE RF XA-40 DENGAN METODE PESQ (PERCEPTUAL EVALUATION OF SPEECH QUALITY), 2021, LPPM, ITK, Rp. 20.000.000,-* *3. Pembuatan Kursi Roda Elektrik Untuk Penyandang Disabilitas Di RT.36 Kelurahan Telagasari, 2021, LPPM ITK, Rp. 14.500.000*		
Industry collaborations over the last 5 years	*-*		
Patents and proprietary rights	*-*		
Important publications over the last 5 years	*Mudeng, V., Priyanto, Y.T.K., Wicaksono, H., Kusuma, V.A. and Muntaha, M., 2019, November. Design of Five Stages Cockroft-Walton with Passive Filter. In 2019 6th International Conference on Electric Vehicular Technology (ICEVT) (pp. 393-396). IEEE.*		
Activities in specialist bodies over the last 5 years	*-*		

Name	*Kharis Sugiarto*		
Post	*Electronics*		
Academic career	*Master degree (Electrical Engineering)* *Undergraduate degree (Industrial Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Politeknik Negeri Malang, Indonesia*	*2019* *2014*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2020-now*
Research and development projects over the last 5 years	*1. Utilization of Used Mineral Water Bottles as Hydroponic Vegetable Planting Media (Hidro-Bokas) in Damai Baru Village, 2020-2021, LPPM ITK, IDR.5.000.000,00*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* *1. Sugiarto, K., Rivai, M. and Irfansyah, A.N., 2019, July. Control of livestock waste odors using gas sensors and fuzzy logic. In 2019 12th International Conference on Information & Communication Technology and System (ICTS) (pp. 81-86). IEEE.*		
Activities in specialist bodies over the last 5 years	-		

Name	*Mifta Nur Farid*		
Post	*Signal Processing*		
Academic career	*Master Degree (Engineering Physics - Industrial Instrumentation Engineering)* *Undergraduate Degree (Engineering Physics)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2018* *2014*
Employment	*Lecturer* *Audio signal processing engineer*	*Institut Teknologi Kalimantan, Indonesia* *PT. Warung Pintar Sekali, Indonesia*	*2018 - now* *Apr. 2018 - Oct. 2018*
Research and development projects over the last 5 years	1. *Rancang Bangun Alat Ukur Gula Darah Teknik Non-Invasive Menggunakan Near Infrared Sensor Berbasis Cloud System, 2021, LPPM ITK, Rp 20.000.000,-* 2. *Evaluasi Objektif Performa OpenBTS Blade RF XA-40 Dengan Metode PESQ (Perceptual Evaluation of Speech Quality), 2021, LPPM ITK, Rp 20.000.000,-* 3. *Rancang Bangun Antena Microstrip Menggunakan Material Dielektrik Artifisial Pada Frekuensi 2.4 GHz, 2020, LPPM ITK, Rp 15.000.000,-* 4. *Analisis Penggunaan Rele Proteksi Sebagai Pengaman Peralatan Dan Penentuan PPE Pada Jaringan Distribusi Akibat Gangguan Hubung Singkat, 2020, LPPM ITK, Rp 10.888.000,-*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Mudeng, V., Natiand, H.S., Farid, M.N., Hasanah, B. and Kusuma, V.A., 2020, August. Performance Analysis of Hybrid Symmetrical Voltage Multiplier Using Low Pass Filter. In 2020 10th Electrical Power, Electronics, Communications, Controls and Informatics Seminar (EECCIS) (pp. 193-197). IEEE.* 2. *Hasanah, B. and Farid, M.N., 2019, December. Analysis of Artificial Dielectric Material Effect on The Performance of Microstrip Antennas. In 2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI) (pp. 137-141). IEEE.* 3. *Arifianto, D. and Farid, M.N., 2018. Dereverberation binaural source separation using deep learning. The Journal of the Acoustical Society of America, 144(3), pp.1684-1684.* 4. *Pribadi, R.J., Farid, M.N., Asmoro, W.A., Widjiati, E. and Arifianto, D., 2018, August. Underwater Source Separation Using Multi-Stage Independent Component Analysis in Semi-Anechoic Water Tank. In Journal of Physics: Conference Series (Vol. 1075, No. 1, p. 012013). IOP Publishing.* 5. *Fauziyah, A., Sulistomo, T.R., Farid, M.N. and Arifianto, D., 2018, August. Vibration Transmissibility Measurement on Multi Pump Damage Detection Using Accelerometer Array. In Journal of Physics: Conference Series (Vol. 1075, No. 1, p. 012011). IOP Publishing.*		
Activities in specialist bodies over the last 5 years	*Persatuan Insinyur Indonesia (PII)* *ELKOM - Jurnal Elektronika dan Komputer*	*Member* *Reviewer*	*2020 - 2021* *2022 - Now*

Name	*Mudeng, Vicky Vendy Hengki*		
Post	*Electronics*		
Academic career	*Master degree (Opto-Mechatronics Engineering)* *Undergraduate degree (Electrical Engineering)*	*National Central University, Taiwan* *Universitas Brawijaya, Indonesia*	*2015-2017* *2010-2014*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2017 - now*
Research and development projects over the last 5 years	*1. Diffuse Optical Imaging Untuk Rekonstruksi Optical Property Pada Buah Tomat, 2020, LPPM ITK, Rp. 30.000.000* *2. Instrumen Perekam Penggunaan Kecepatan dan Kemiringan Kendaraan Bermotor, 2020, LPPM ITK, Rp. 20.000.000* *3. Self Balancing pada Robot Roda Dua dengan Menggunakan Inverted Pendulum, 2019, Kementerian Riset, Teknologi dan Pendidikan Tinggi, Rp. 35.000.000* *4. Electrocardiography Untuk Home Monitoring Kesehatan Jantung Berbasis Protokol IEEE 802.15.4, 2019, Kementerian Riset, Teknologi dan Pendidikan Tinggi, Rp. 20.000.000* *5. Implementasi band pass filter menggunakan circular waveguide berbasis resonator dielektrik artifisial untuk mode propagasi transfer elektrik, 2018, LPPM ITK, Rp. 10.000.000*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* *1. Mudeng, V., Kim, M. and Choe, S.W., 2022. Prospects of Structural Similarity Index for Medical Image Analysis. Applied Sciences, 12(8), p.3754.* *2. Mudeng, V., Kim, M. and Choe, S.W., 2021. Objective Numerical Evaluation of Diffuse, Optically Reconstructed Images Using Structural Similarity Index. Biosensors, 11(12), p.504.* *3. Mudeng, V., Nisa, W. and Suprapto, S.S., 2021. Computational image reconstruction for multi-frequency diffuse optical tomography. Journal of King Saud University-Computer and Information Sciences.* *4. Mudeng, V., Hassanah, B., Priyanto, Y.T.K. and Saputra, O., 2020. Design and simulation of two-wheeled balancing mobile robot with pid controller. International Journal of Sustainable Transportation Technology, 3(1), pp.12-19.* *5. Mudeng, V., Priyanto, Y.T.K., Wicaksono, H., Kusuma, V.A. and Muntaha, M., 2019, November. Design of Five Stages Cockroft-Walton with Passive Filter. In 2019 6th International Conference on Electric Vehicular Technology (ICEVT) (pp. 393-396). IEEE.* *6. Mudeng, V., Priyanto, Y. and Giyantara, A., 2018. Image reconstruction for frequency-domain diffuse optical tomography. Turkish Journal of Electrical Engineering & Computer Sciences, 26(5), pp.2287-2300.*		
Activities in specialist bodies over the last 5 years	*IEEE Photonics Journal (IEEE)* *Walailak Journal of Science and Technology (Walailak University)* *The Korean Institute of Communications and Information Sciences* *Persatuan Insinyur Indonesia (PII)* *Optical and quantum electronics (Springer)* *International Journal for Numerical Methods in Biomedical Engineering (Wiley)* *International Association of Engineer (IAENG)*	*Reviewer* *Reviewer* *Student Member* *Member* *Reviewer* *Reviewer* *Member*	*2022-Now* *2021-Now* *2021-Now* *2020 - Now* *2020-Now* *2019-Now* *2017 - Now*

Name	*Muhammad Agung Nursyeha*		
Post	*Electronics*		
Academic career	*Master Degree (Electronics)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2021* *2016*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2022 - Now*
Research and development projects over the last 5 years	*1. Swarm Robot for Gas Leak Localization, one year, Institut Teknologi Sepuluh Nopember.* *2. Spiking Neural Network, multi-years, Institut Teknologi Sepuluh Nopember.*		
Industry collaborations over the last 5 years	*-*		
Patents and proprietary rights	*-*		
Important publications over the last 5 years	*Selected recent publications:* *1. Nursyeha, M. A., Rivai, M., & Purwanto, D. (2020, July). LiDAR equipped robot navigation on behavior-based formation control for gas leak localization. In 2020 International Seminar on Intelligent Technology and Its Applications (ISITIA) (pp. 89-94). IEEE.*		
Activities in specialist bodies over the last 5 years	*-*		

Name	*Muhammad Ridho Dewanto*		
Post	*Computer System*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Bandung, Indonesia* *Institut Teknologi Bandung, Indonesia*	*2017* *2013*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2022 - Now*
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	-		
Activities in specialist bodies over the last 5 years	-		

Name	*Risty Jayanti Yuniar*		
Post	*Control System*		
Academic career	*Master degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Universitas Brawijaya Malang, Indonesia* *Universitas Brawijaya Malang, Indonesia*	*2011-2013* *2006-2010*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2020-now*
Research and development projects over the last 5 years	*Rancang Bangun Sistem Pembangkit Listrik Tenaga Sampah Type Incinerator Dengan Kontroler PID Optimal, 2021, LPPM ITK, Rp. 20.000.000*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Yuniar, R.J., Suprapto, S.S. and Sugiarto, K., 2021, November. Pencegahan Penyebaran Virus Corona Melalui Pembuatan Alat Cuci Tangan Otomatis di Ponpes dan Panti Asuhan Jami'atul Islamiyah Balikpapan. In Seminar Nasional Pengabdian Kepada Masyarakat (SEPAKAT) (Vol. 2).*		
Activities in specialist bodies over the last 5 years	-		

Name	*Riza Hadi Saputra*		
Post	*Power system*		
Academic career	*Master Degree (Engineering Physics)* *Undergraduate Degree (Engineering Physics)*	*Institut Teknologi Bandung, Indonesia* *Universitas Telkom, Indonesia*	*2016* *2014*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2022 - Now*
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	*International Competency Certificates for Development Carrier, PT. OMRON Electronics*		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Sahara, A., Saputra, R.H., Asis, M. and Lawasnitro, A., 2021, October. Design of Hydroponic Planting Media Based on Solar Cell Power. In 2021 7th International Conference on Electrical, Electronics and Information Engineering (ICEEIE) (pp. 1-4). IEEE.* 2. *Saputra, R.H., Huda, A.M., Sahara, A. and Rohie, Y.R.D., 2020. Analysis of Voltage and Electric Current in a Web-based Solar Power Plant.* 3. *Sahara, A., Saputra, R.H. and Huda, A.M., 2020. Potentials of solar power plant in Waru Tua. TELKOMNIKA, 18(6), pp.3266-3275.*		
Activities in specialist bodies over the last 5 years	-		

Name	*Sena Sukmananda Suprapto*		
Post	*Electronics*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Engineering Physics)*	*Institut Teknologi Bandung, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2017* *2014*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2017 - now*
Research and development projects over the last 5 years	*Low-cost Digital Payment Vending Machine, 2021-2022, PT. Interaktif Internasional, IDR 20.000.000*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	*Vending Machine Rack* *Pressure Mapping Instrument* *Automatic Bluetooth Relay* *Expenditure Energy Instrument* *Digital Payment Software for Vending Machine*		*2021* *2021* *2021* *2022* *2022*
Important publications over the last 5 years	*Selected recent publications:* *1. Mudeng, V., Nisa, W. and Suprapto, S.S., 2021. Computational image reconstruction for multi-frequency diffuse optical tomography. Journal of King Saud University-Computer and Information Sciences.* *2. Karim, A.A., Suprapto, S.S. and Gufron, M., 2021. An Ergonomics Approach of The Prayer Mat Size. In Journal of Physics: Conference Series (Vol. 1726, No. 1, p. 012002). IOP Publishing.* *3. Hakim, I.M., Mudeng, V. and Suprapto, S.S., 2020, August. Sport Monitoring Using Inertial Sensing for Frequency and Velocity Examination. In 2020 10th Electrical Power, Electronics, Communications, Controls and Informatics Seminar (EECCIS) (pp. 151-154). IEEE.* *4. Suprapto, S.S., Setiawan, A.W., Zakaria, H., Adiprawita, W. and Supartono, B., 2017, November. Low-cost pressure sensor matrix using velostat. In 2017 5th International Conference on Instrumentation, Communications, Information Technology, and Biomedical Engineering (ICICI-BME) (pp. 137-140). IEEE.*		
Activities in specialist bodies over the last 5 years	*Persatuan Insinyur Indonesia (PII)* *ELKOM - Jurnal Elektronika dan Komputer*	*Member* *Reviewer*	*2020 - 2021* *2022 - Now*

Name	*Thorikul Huda*		
Post	*Power System*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2015* *2012*
Employment	*Lecturer* *Electrical Engineer*	*Institut Teknologi Kalimantan, Indonesia* *PT. Damar Perkasa*	*2016 - Now* *2013 - 2015*
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	*Selected recent publications:* 1. *Huda, T., Amalia, R.N., Astrowulan, K. and Sulisetyono, A., 2018, December. Design of Radial Basis Function Network and State-Dependent LQT for Path Planning and Tracking of Autonomous Underwater Vehicle (AUV) to Intercept A Moving Target. In 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME) (pp. 343-348). IEEE.* 2. *Ernawati, L., Torimtubun, A. A. A., Arofai, T., Yani, A., Huda, T., & Wahyuono, R. A. (2020). Polyol Modification of PEDOT: PSS as Hole Transport Material Affects the Performance and Stability of Calcium Titanate (CaTiO3) Solar Cell and UV Photodetector. In E3S Web of Conferences (Vol. 190, p. 00023). EDP Sciences.*		
Activities in specialist bodies over the last 5 years	-		

Name	*Vicky Andria Kusuma*		
Post	*Power system*		
Academic career	*Master Degree (Power System)* *Undergraduate Degree (Power Industry)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Politeknik Elektronika Negeri Surabaya, Indonesia*	*2017* *2014*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2018 - Now*
Research and development projects over the last 5 years	*1. Rancang Bangun Vending Machine dengan Verifikasi Pembayaran Otomatis Berbasis Quick Response Code Indonesian Standard (QRIS) sebagai Inovasi di Bidang Smart Economy, 2021 - Now, QRIS Id, Rp 20.000.000* *2. Power to the People: An integrated approach for governance innovation through local energy initiatives for urban coastal communities in Indonesia. Case studies Semarang and Balikpapan, 2022 - Now, € 44,885*		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	*Vending machine rack* *TAKE IT* *Program Komputer Pada Vending Machine Berbasis Pembayaran QRIS* *Buku Panduan/Petunjuk Judul Ciptaan : Panduan Website EURA (energi Untuk Rakyat)*		*2021* *2021* *2022* *2022*
Important publications over the last 5 years	*Kusuma, V.A., Hasanah, B. and Slamet, S., 2020. Forecasting Potensi Energi Gas Metana menggunakan Pembangkit Listrik Tenaga Sampah (PLTSa) pada TPA Manggar kota Balikpapan. JEECAE (Journal of Electrical, Electronics, Control, and Automotive Engineering), 5(2), pp.17-23.*		
Activities in specialist bodies over the last 5 years	*Ppsdm Kebtke*	*Asesor Kompetensi Muda Bidang Distribusi Tenaga Listrik*	*2020*

Name	*Yun Tonce Kusuma Priyanto*		
Post	*Power System Electrical, Artificial Intelligent, Renewable Energy*		
Academic career	*Master Degree (Electrical Engineering)* *Undergraduate Degree (Electrical Engineering)*	*Institut Teknologi Sepuluh Nopember, Indonesia* *Institut Teknologi Sepuluh Nopember, Indonesia*	*2012* *2009*
Employment	*Lecturer*	*Institut Teknologi Kalimantan, Indonesia*	*2015 - now*
Research and development projects over the last 5 years	*1. Perancangan dan Pembuatan Pembangkit Picohydro Berbasis Turbin Bambu dengan Kontrol Optimal Menggunakan Metode Hybrid Particle Swarm Optimization dan Butterfly Optimization Algorithm, 2021, LPPM ITK, Rp. 20.000.000,-* *2. Pengembangan Mobile Learning menggunakan Role Play pada Android sebagai Metode Belajar, 2019, LPPM ITK, Rp. 8.750.000*		
Industry collaborations over the last 5 years	*1. BPJS Balikpapan Building Electrical Design, 2019, CV. STUDIO - M* *2. Balikpapan Kejaksaan Building Design, 2020, PT. Rumah Kutai Perencana* *3. Designer and Project Manager of PV Power Plants 118 kWP in Politeknik Bengkalis, 2021, PT. Papa Energi Mandiri* *4. Supervisor Maintenance PV Power Plants 50 kWp in Mahakam Ulu, 2022, PT. Kaltim Energi*		
Patents and proprietary rights	*-*		
Important publications over the last 5 years	*Selected recent publications:* *1. Priyanto, Y.T.K., Safarudin, Y.M. and Giyantara, A., 2021, December. SISTEM PENGENDALIAN KECEPATAN MOTOR DC MENGGUNAKAN FUZZY LOGIC. In Prosiding Seminar Nasional NCIET (Vol. 2, No. 1, pp. 105-113).* *2. Giyantara, A., Rizqullah, R.B. and Priyanto, Y.T.K., 2021. Analysis of Partial shading Effect on Solar Panel Power Output. In Journal of Physics: Conference Series (Vol. 1726, No. 1, p. 012022). IOP Publishing.* *3. Gunawan, G., Suanggana, D. and Priyanto, Y.T.K., 2020. Effect Of Deflector Angle Into Various Blades Configuration Of Single Stage Vertical Axis Savonius Hydro Turbine Performance. FLYWHEEL: Jurnal Teknik Mesin Untirta, 1(1), pp.1-6.* *4. Mudeng, V., Priyanto, Y.T.K., Wicaksono, H., Kusuma, V.A. and Muntaha, M., 2019, November. Design of Five Stages Cockroft-Walton with Passive Filter. In 2019 6th International Conference on Electric Vehicular Technology (ICEVT) (pp. 393-396). IEEE.* *5. Priyanto, Yun Tonce Kusuma, Vicky Mudeng, and Muhammad Robith. "Optimal Power Flow with Considering Voltage Stability using Chaotic Firefly Algorithm." International Journal of Sustainable Transportation Technology 2, no. 1 (2019): 1-7.* *6. Mudeng, V., Priyanto, Y. and Giyantara, A., 2018. Image reconstruction for frequency-domain diffuse optical tomography. Turkish Journal of Electrical Engineering & Computer Sciences, 26(5), pp.2287-2300.*		
Activities in specialist bodies over the last 5 years	*IAENG* *TABG Balikpapan* *TPA Balikpapan*	*Member* *Consultant in Mechanical Electrical Building* *Consultant in Mechanical Electrical Building*	*2016 - now* *2018 - 2021* *2022 - now*