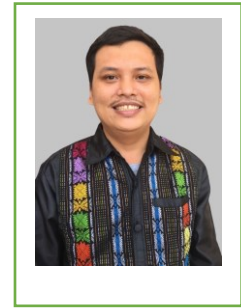


CURRICULUM VITAE



Ir. Lukman Medriavin Silalahi, A.Md., ST., MT., IPM., APEC-Eng
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Resume

Lukman Medriavin Silalahi obtained his Master of Electrical Engineering degree from Universitas Mercu Buana in 2019 and continued his Doctoral at the Department of Electrical Engineering, University Indonesia in 2024 until now. He has also obtained the Senior Professional Engineer certification from The Institution of Engineers Indonesia and as well as receiving APEC Engineer recognition from the International Engineering Alliance. Currently, he is positioned as a Contract Lecturer in the Informatics Study Program at Asia Cyber University. He has also successfully published 42 scientific articles as the first author or co-author in reputable international journals or conferences indexed by Scopus. In addition, he is a member of the IEEE Communications Society Indonesia Chapter. His main research areas are Network Security, Telecommunication Engineering, Telecommunication Traffic Engineering, Control System Engineering, and Wireless-IoT (Internet of Things).

A. Identity

1	Full Name	Ir. Lukman Medriavin Silalahi, A.Md., ST., MT., IPM., AER., APEC-Eng
2	National Academic Level (JFA)	Assistant Professor/Lektor (300)
3	Account Number (BNI)	0272266028
4	National Lecturer ID (NIDN)	0309059003
5	Nomor Telepon/ HP	0812-1816-6170
6	Address	Kav. Salembaran Jaya No. 12, RT. 003/RW. 010, Kel. Salembaran Jaya, Kec. Kosambi, Kab. Tangerang, Banten
7	Hobbies	Futsal, Reading, Writing
8	Courses	1. Calculus 2. Basic Telecommunications 3. Traffic Engineering 4. Transmission Channels 5. Telecommunications Electronics 6. Radio Communication Systems 7. Mobile Telecommunications Systems 8. Microprocessor-Based Design 9. Analog and Digital Telecommunications 10. Digital System Design

B. Educational Background

Program	Diploma	Bachelor	Magister	Professional	Doctor
University	Akademi Teknik Telekomunikasi Sandhy Putra	Universitas Mercu Buana	Universitas Mercu Buana	Universitas Negeri Makassar	Universitas Indonesia
Major	Telecommunication Engineering	Electrical Engineering	Electrical Engineering	Electrical Engineering	Electrical Engineering
Year of Entry – Year of Graduation	Agus 2008 – Sept 2011	Okt 2011 – Nov 2013	Mar 2015 – Jul 2017	Sept 2024-Jan 2025	Aug 2024 – Now
Supervisor/ Promotor	Hary Nugroho, S.T., M.T	Dr. Yudhi Gunardi, S.T., MT.	Prof. Dr.Ing. Mudrik Alaydrus	Dr. Ir. Abd. Muis Mappalotteng, S.Pd., M.Pd., M.T., IPM	Prof. Dr, Ir. Dadang Gunawan, M.Eng
Thesis	Design and Build a Communication System for Motorcyclists	Phase Lock Loop System Application on Communication for Motorcyclists	Prototype Monitoring and Control in TPMS (Tire Pressure Monitoring System)		Traffic Engineering Performance Analysis Model of MPLS on L2/L3 VPN Using Segment Routing Method

C. Sertifikat Profesi

No	Year	Type of Certification	Awarding Institution	Tautan
1	2020	Senior Professional Engineer	The Institution of Engineers Indonesia	Certificate
2	2020	Engineer Registration Certificate	The Institution of Engineers Indonesia	Certificate
3	2020-today	Membership of Engineers	The Institution of Engineers Indonesia	Certificate
4	2024	Asia Pacific Economic Cooperation (APEC) Engineer Register Indonesia	The Institution of Engineers Indonesia	Certificate

D. Penghargaan (dari pemerintah, asosiasi atau institusi lainnya)

No	Tahun	Jenis Penghargaan	Institusi Pemberi Penghargaan	Tautan
1	2020	Bronze Reward For the Invention: Design of Control and Monitoring System of Smart Sawah based on the Internet of Things	Indonesia Inventors Days 2020, INNOPA	Certificate
2	2025	Awardee Problem Market Fit (PMF) For the Invention: Key Energy-Key Solutions in Renewable Pump Green Energy	UI Incubate 2025	Certificate

E. Work Experience

No	Year	Descriptions
1	2011-2013	PT. Indosat Tbk - SNOC (Single Network Operation Center) RAN (Radio Access Network) Engineer Monitoring Sulawesi, Maluku, Papua
2	2013-2014	PT. Indosat Tbk – SNOC-RAN Engineer Monitoring Kalimantan
3	2014-2016	PT. Indosat Tbk - SNOC-RAN Engineer Monitoring Sumatera
4	2016-2017	PT. Indosat Tbk - SNOC-RAN Engineer Monitoring Sumatera
5	2017-2018	PT. Indosat Ooredoo Tbk – Back Office RAN Engineer
6	2018-2019	PT. Indosat Ooredoo Tbk – Back Office Core Network Engineer
7	2019-2021	PT. Indosat Ooredoo Tbk – Fault Tracking Transmission Network Engineer
8	2021-2022	Universitas Mercu Buana - Head of the Bureau of Operational Information Technology
9	2017 - 2024	Universitas Mercu Buana – Faculty of Engineering – Electrical Engineering Study Program
10	Agustus 2024-Agustus 2025	Universitas Siber Asia– Contract Lecturer in the Informatics Study Program
11	September 2025-now	Universitas Presiden – Faculty of Engineering – Electrical Engineering Study Program

F. Grant Experience

No	Year	Experience	Tautan
1	2025	As the Chair of Regular Fundamental Research for the Fiscal Year 2025	Certificate
2	2025	As the Chair of Community Service for the Fiscal Year 2025	Certificate
3	2024	As the Chair of Community Service for the Fiscal Year 2024	Certificate
4	2024	As a Member of Community Service for the 2024 Fiscal Year	Certificate

G. Organizational Experience

No	Year	Experience	Tautan
1	2019	Becoming a Member of the International Accreditation Formulation IABEE for the Bachelor of Electrical Engineering Study Program	Certificate
2	2020	Becoming a Coordinator in the Field of Science 2	Certificate
3	2022	Becoming a Supervisor of the Christian Spiritual Student Activity Unit	Certificate
4	2023	Becoming a PIC Member Criteria 3 (Student Affairs) and PIC Criteria 9 (Outputs and Achievements of Tridharma)	Certificate
5	2023	Becoming the Editor of the Abdimas ADPI Science and Technology Journal for the period of 2023-2025	Certificate
6	2023	Becoming a Member of the Association of Community Service Lecturers (ADPI) DKI Jakarta Province for the period 2023-2027	Certificate
7	2023	Becoming the Editor of the National Seminar Proceedings of ADPI Devoted to the Nation for the period 2023-2025	Certificate
8	2023	Becoming a Staff Member in the Public Relations Sector of ADPI Central Cooperation for the period 2023-2027	Certificate
9	2024	Becoming an IEEE Graduate Student Member	Certificate
10	2024	Becoming a Member of the IEEE Graduate Student Member Communications Society	Certificate
11	2025	Becoming a Member of APTIKOM	Certificate
12	2025	Becoming a Member of FORTEI	Certificate

G. Research Experience in the Last 3 Years

No.	Year	Research Title	Position	Funding	
				Source*	Amount (Millions Rupiah)
1	2025	Hibah PFR 2025: Desain Manajemen Jaringan Hotspot WiFi (Wireless Fidelity) Pada Router Mikrotik Menggunakan Metode Segment Routing-Traffic Engineering Berbasis Hierarhical Token Bucket	Chairperson of the Regular Fundamental Research Grant for the 2025 Fiscal Year	KEMDIKTISAINTEK	67,310
2	2024	Desain Perancangan Sistem Kendali Fuzzy Mamdani Berbasis IoT pada Tangki Air	Chairman of Young Research	Universitas Mercu Buana	4,5
3	2024	Penerapan Metode Haar Cascade Terhadap Objek Botol Menggunakan ESP32-CAM	Chairman of Young Research	Universitas Mercu Buana	4,5
4	2024	Quality of Service Analysis Using Channel Assignment Method on Wifi 5 Ghz in Handling the Effect of Signal Interference Using Mobile Controller	Flagship Research Member (Foreign Cooperation)	Universitas Mercu Buana /UTHM Malaysia	50
5	2024	Analisis Load Balancing Data Center Pada Link Aggregation Control Protocol (LACP) Menggunakan Multipath Border Gateway Protocol (BGP) pada Topologi Jaringan Clos	Domestic Cooperation Research Member	Universitas Mercu Buana / Universitas Nasional	10
6	2024	Perbandingan Metode Optimasi MPPT Panel Surya P&O Dan PSO Untuk Mengatasi Partial Shading	Domestic Cooperation Research Member	Universitas Mercu Buana / Universitas Negeri Bengkulu	10
7	2024	Peningkatan Kinerja Antena Mikrostrip Planar Array 1x5 Dengan Proximity Coupling	Domestic Cooperation Research Member	Universitas Mercu Buana / Badan Riset dan Inovasi Nasional	10
8	2024	Analisis Optimasi Jaringan SDWAN pada Migrasi Media Akses dan Perubahan Layanan pada Perusahaan Transportasi	Young Research Members	Universitas Mercu Buana	4,5
9	2024	Rancang Bangun Pembangkit Listrik Tenaga Bayu (PLTB) 4 <i>Wind</i> Turbin Generator sebagai Pasokan Daya Pada Lampu Penerangan <i>Conveyor</i> PLTU Banten 1 Suralaya	Young Research Members	Universitas Mercu Buana	4,5

No.	Year	Research Title	Position	Funding	
				Source*	Amount (Millions Rupiah)
10	2024	Perancangan dan Analisis Sistem Instalasi Daya Listrik 630 KVA Menggunakan Etap Software	Young Research Members	Universitas Mercu Buana	4,5
11	2023	Implementasi Teknologi Software-Defined Wide Area Network (SD-WAN) Dengan Metode Border Gateway Protocol (BGP) Untuk Analisis Pengujian Auto Failover	Chairman of Young Research	Universitas Mercu Buana	4,5
12	2023	Penerapan Konsep Optimasi Mpls Tunnel Service Layer 2 Virtual Private Network Dengan Metode Segment Routing-Traffic Engineering Untuk Analisis Layanan Looping-Protection	Chairman of Young Research	Universitas Mercu Buana	4,5
13	2023	Analisis Penyelesaian dan Identifikasi pada Serangan Distributed Denial of Service Menggunakan Skema Intra-Domain Messaging	Domestic Cooperation Research Member	Universitas Mercu Buana / Universitas Nasional	10
14	2023	Novelty of WSN for Power Control and Monitoring Public Street Lighting with Earthquake Early Warning	Flagship Research Member (Foreign Cooperation)	Universitas Mercu Buana / Beijing Institute of Technology	20

* Write down the sources of funding both from the DIKTI research scheme and from other sources.

H. Community Service Experience in the Last 3 Years

No.	Year	Community Service Title	Position	Funding	
				Source*	Amount (Millions Rupiah)
1	2025	Hibah PkM 2025: Penerapan Informatika pada Sistem Manajemen Kehadiran Guru/Khadimul Ummah dan Ilmu Komunikasi Menuju Literasi Digital di Pondok Pesantren Al-Hayah	Chairperson of the Community Service DIKTI Grant	KEMDIKTIS AINTEK	43,750
2	2024	Hibah PkM 2024: Penerapan TESLA-Bi (Teknologi Energi Surya Lintas Antar Bidang Ilmu) pada Tempat Duduk Futuristik Di PKBM Amari.	Chairperson of the Community Service DIKTI Grant	KEMDIKTIS AINTEK	37,417

No.	Year	Community Service Title	Position	Funding	
				Source*	Amount (Millions Rupiah)
3	2024	Hibah PkM 2024: Penerapan Teknologi Elektro Menggunakan Website Sebagai Media Ilmu Komunikasi Digital Berbasis TIK di PKBM Amari	Community Service Grant Member	KEMDIKTIS AINTEK	34,563
4	2024	The Role of Domestic Workers in the Health Safety Environment (HSE): Focus on Household Electricity Based on the Internet of Things	Members of the Community Service Program in International Cooperation	Universitas Mercu Buana / PERMAI Malaysia	11,5
5	2024	Sistem Lemari Otomatis dengan Penggunaan Sensor RFID dan Motor Servo	Chairman of Internal Community Service	Universitas Mercu Buana / PKBM Wiyata Utama	3,5
6	2024	Optimasi Tempat Duduk Cerdas Energy Harvester: Analisis Konsep Energy Harvesting dengan Pemanfaatan Sensor Tegangan dan Berbasis Arduino	Implementation Members of Domestic Collaboration in Community Service	Universitas Mercu Buana / PKBM Wiyata Utama	5
7	2024	Optimasi Tempat Duduk Cerdas Energy Harvester: Analisis Konsep Energy Harvesting dengan Pemanfaatan Sensor Tegangan dan Berbasis Arduino	Internal Community Service Implementation Member	Universitas Mercu Buana / RPTRA Menara	3,5
8	2024	Inovasi Teknologi Tempat Duduk Cerdas: Implementasi Konsep Energy Harvesting dan Pemanfaatan Sensor Getaran Berbasis Arduino	Internal Community Service Implementation Member	Universitas Mercu Buana / RPTRA Menara	3,5
9	2023	Pelatihan Edukasi Internet of Things Dan Survey Di Sekolah Pkbn Harapan Bunda, Srengseng, Jakarta Barat	Chairperson of the Domestic Cooperation Community Service	Universitas Mercu Buana / PKBM Harapan Bunda	5
10	2023	IoT (Internet of Things) for 4.0 Industry Revolution	Members of the International Community Service Program	Universitas Mercu Buana / UTHM Malaysia	9
11	2023	Edukasi Perangkat Keras Dan Perangkat Lunak Komputer Kantor Guru Sekolah Paud Insan Mulia, Pinang, Tangerang Kota	Internal Community Service Member	Universitas Mercu Buana / PAUD Insan Mulia	3,5

* Tuliskan sumber pendanaan baik dari skema penelitian DIKTI maupun dari sumber lain

**I. Publication of Scientific Articles in Journals / Proceedings [Reputable International
- Indexed by Scopus] in the Last 3 Years**

No.	Year	Article Title	Description	Journal Name	Volume/ No/ Year
1	2025	Sistem Monitoring dan Kendali Proteksi Motor 3 Phasa Berbasis IoT menggunakan Metode Fuzzy Sugeno	Publications Output with Students	PETIR (Jurnal Pengkajian Dan Penerapan Teknik Informatika) (SINTA-3) E-ISSN: 2655-5018 DOI: https://jurnalitpln.id/petir/article/view/2382	PETIR (Jurnal Pengkajian Dan Penerapan Teknik Informatika) Vol. 16, No. 1 April 2023 pp. 48-56
2	2024	Sistem Kendali Fuzzy Mamdani Berbasis IoT untuk Optimalisasi Tangki Air	Young Research Output period 2024/2025	JPTI (Jurnal Pendidikan Dan Teknologi Indonesia) (SINTA-3) E-ISSN: 2775-4219 DOI: https://doi.org/10.52436/1.jpti.458	JPTI (Jurnal Pendidikan Dan Teknologi Indonesia) Vol. 4, No. 6 Juni 2024 pp. 233-245
3	2024	Penerapan Metode Haar Cascade terhadap Objek Botol menggunakan ESP32-Cam	Young Research Output period 2024/2025	JPTI (Jurnal Pengkajian Dan Penerapan Teknik Informatika) (SINTA-3) E-ISSN: 2655-5018 DOI: https://doi.org/10.52436/1.jpti.457	JPTI (Jurnal Pendidikan Dan Teknologi Indonesia) Vol. 4, No. 6 Juni 2024 pp. 233-245
4	2024	Software Define Wide Area Network (SDWAN) Network Optimization Analysis on Radiolink-Fiber Optic Access Media Migration Author: 2 nd & Corresponding	Young Research Output period 2024/2025	iJET (Q4) P-ISSN: 2300-1933 DOI: Link Date: 10/2024	iJET Vol. 70, No. 4 Okt 2024 pp. 960 – 967
5	2024	Comparison of MPPT Optimization Methods for P&O and PSO Solar Panels to Overcome Partial Shading Author: 4 th	Domestic Research Output period 2023/2024	iJET (Q4) P-ISSN: 2300-1933 DOI: Link Date: 10/2024	iJET Vol. 70, No. 4 Okt 2024 pp. 1023 – 1029
6	2024	Analisa Performansi Jaringan LTE (Long Term Evolution) pada LRT (Light Rail Transit) Rute Velodrome – Pegangsaan Dua Author: 2 nd & Corresponding	Publications Output with Students	INCOMTECH : JURNAL TELEKOMUNIKASI DAN KOMPUTER (SINTA-3) E-ISSN: 2579-6089 DOI: https://dx.doi.org/10.22441/incomtech.v14i2.19024 Date: 08/2024	INCOMTECH : JURNAL TELEKOMUNIKASI DAN KOMPUTER Vol. 14, No. 2 Agus 2024 pp. 87-97

No.	Year	Article Title	Description	Journal Name	Volume/ No/ Year
7	2024	Analysis Of Solar Power Public Street Lighting Optimization With Pvsyst Software In A Residential Complex Area	Young Research Output period 2021/2022	iJET (Q3) P-ISSN: 2300-1933 DOI: Link Date: 03/2024	iJET Vol. 70, No. 3 July 2024 pp. 743-749
8	2024	PROTOTYPE OF HOME SECURITY MONITORING SYSTEM BASED ON INTERNET OF THINGS Author: 4 th & Corresponding	Publications Output with Students	Metrik Serial Humaniora dan Sains E-ISSN: 2774-2377 DOI: https://doi.org/10.51616/huma.v5i1 Date: 14/05/2024	Metrik Serial Humaniora dan Sains Vol. 5, No. 1 Mei 2024 pp. 1-9
9	2024	Monitoring and Evaluation Electrical Power Control in Solar Power Systems Based on IoT Author: 3 rd	Young Research Output period 2023/2024	CCIT (SINTA 3) P-ISSN: 1978-8282 DOI: https://doi.org/10.33050/ccit.v17i2.2996 Date: 21/05/2023	CCIT Vol. 17, No. 2 Mei 2024, pp. 170 – 183
10	2024	Smart Cupboards at Community Learning Activity Center Wiyata Utama Author: 2 nd	Publications Output of Community Service Collaboration Domestic period 2023/2024	ABDIMAS: Jurnal Pengabdian Masyarakat (SINTA-4) E-ISSN: 2614-8544 DOI: https://doi.org/10.35568/abdimas.v7i2.4737 Date: 30/04/2024	ABDIMAS: Jurnal Pengabdian Masyarakat Vol. 7, No. 2 April 2024 pp. 749-755
11	2024	Implementation of auto failover on SD-WAN technology with BGP routing method on Fortigate routers at XYZ company Author: 1 st & Corresponding	Young Research Output period 2023/2024	iJET (Q3) P-ISSN: 2300-1933 DOI: https://doi.org/10.24425/ijet.2024.149540 Date: 03/2024	iJET Vol. 70, No. 1 March 2024 pp. 5-11
12	2023	ANALISA QUALITY OF SERVICE JARINGAN LTE-A MENGGUNAKAN METODE CA-INTERBAND DI WILAYAH KIARACONDONG Author: 1 st & Corresponding	Publications Output with Students	INCOMTECH : JURNAL TELEKOMUNIKASI DAN KOMPUTER (SINTA-3) E-ISSN: 2579-6089 DOI: http://dx.doi.org/10.22441/incomtech.v13i3.19026 Date: 12/2023	INCOMTECH : JURNAL TELEKOMUNIKASI DAN KOMPUTER Vol. 13, No. 3 Des 2023 pp. 209-218
13	2023	PERANCANGAN KENDALI FILTER AIR TANAH BERBASIS	Young Research	JTERA: Jurnal Teknologi Rekayasa (SINTA-3)	JTERA: Jurnal Teknologi Rekayasa

No.	Year	Article Title	Description	Journal Name	Volume/ No/ Year
		LOGIKA FUZZY DAN PEMANTAUAN KONDISINYA MENGGUNAKAN PLATFORM IOT Author: 1 st & Corresponding	Output period 2021/2022	E-ISSN: 2548-8678 DOI: http://dx.doi.org/10.31544/jte.ra.v8.i2.2023.199-208 Date: 12/2023	Vol. 8, No. 2 Des 2023 pp. 199-208
14	2023	Computer Hardware and Software Education for Teacher's Office of Insan Mulia Early Childhood Education School Tangerang Author: 1 st & Corresponding	Publications Output of Community Service Collaboration Domestic period 2022/2023	Journal of Innovation and Community Engagement (SINTA-5) E-ISSN: 2614-8544 DOI: https://doi.org/10.28932/ice.v4i4.7313 Date: 30/11/2023	Journal of Innovation and Community Engagement Vol. 4, No. 4 Nov 2024 pp. 232-240
15	2023	Simulation and Analysis of Link Failover Using Routing Border Gateway Protocol (BGP) Multi-Protocol Label Switching (MPLS) Networks Author: 3 rd	Young Research Output period 2022/2023	Conference Proceeding P-ISBN: 979-8-3503-4390-8 DOI: https://doi.org/10.1109/ICRA-MET60171.2023.10366652 Date: 25/12/2023	vol: 2023-Dec issue: 2023- 12-25 pp. 341-346
16	2023	Flood Detection Design based on the Internet of Things Author: 3 rd	Young Research Output period 2022/2023	Buletin Ilmiah Sarjana Teknik Elektro (SINTA-4) E-ISSN: 2614-8544 DOI: https://doi.org/10.12928/biste.v5i4.9209ss Date: 09/11/2023	Buletin Ilmiah Sarjana Teknik Elektro Vol. 5, No. 4 Nov 2023 pp. 427-437
17	2023	Internet of Things Education Teaching and Learning Centre Harapan Bunda School Jakarta Author: 1 st & Corresponding	Publications Output of Community Service Collaboration Domestic period 2022/2023	ABDIMAS: Jurnal Pengabdian Masyarakat (SINTA-4) E-ISSN: 2614-8544 DOI: https://doi.org/10.35568/abdimas.v6i4.3862 Date: 31/10/2023	ABDIMAS: Jurnal Pengabdian Masyarakat Vol. 6, No. 4 Oktober 2023 pp. 4439-4448
18	2023	An enhancement to the FLC-based baby incubator system using genetic algorithm Author: 2 nd	Research Output of International Cooperation for the period 2021/2022	Jurnal Infotel (SINTA-2) E-ISSN: 2460-0997 DOI: https://doi.org/10.20895/infotel.v15i3.991 Date: 04/09/2023	Jurnal Infotel Vol. 15, No. 3 Sep 2023 pp. 287-301

No.	Year	Article Title	Description	Journal Name	Volume/ No/ Year
19	2023	Internet of Things for 4.0 Industry Revolution Author: 2 nd & Corresponding	Research Output of International Cooperation for the period 2022/2023	Journal of Innovation and Community Engagement (SINTA-5) E-ISSN: 2614-8544 DOI: https://doi.org/10.28932/ice.v4i3.7316 Date: 31/08/2023	Journal of Innovation and Community Engagement Vol. 4, No. 3 Agustus 2023 pp. 164-173
20	2023	Rancang Bangun Prototipe Water Flow Meter Dan Level Air Pompa Dewatering Dengan Monitor Thingspeak Menggunakan Sumber Daya Tenaga Surya Author: 1 st & Corresponding	Publications Output with Students	PETIR (Jurnal Pengkajian Dan Penerapan Teknik Informatika) (SINTA-3) E-ISSN: 2655-5018 DOI: https://doi.org/10.33322/petir.v16i1.1615 Date: 30/04/2023	PETIR (Jurnal Pengkajian Dan Penerapan Teknik Informatika) Vol. 16, No. 1 April 2023 pp. 48-56
21	2023	Simulation and Performance Analysis of Network Backup Systems Using Hot Standby Router Protocol (HSRP) Method on Real-Time Networks Author: 3 rd	Young Research Output period 2022/2023	iJET (Q3) P-ISSN: 2300-1933 DOI: https://doi.org/10.24425/ijet.2023.147698 Date: 10/2023	iJET Vol. 69, No. 4 October 2023 pp. 763-768
22	2023	Application of MPLS Tunnel Service L2TP-VPN Optimization Concept with Traffic Engineering Method for Looping-Protection Service Analysis Author: 1 st & Corresponding	Young Research Output period 2023/2024	iJET (Q3) P-ISSN: 2300-1933 DOI: iJET Publish Date: 01/02/2023	iJET Vol. 69, No. 1, Feb 2023 pp. 115-120
23	2023	Analisis Keamanan Jaringan Menggunakan Intrusion Prevention System (Ips) Dengan Metode Traffic Behavior Author: 1 st & Corresponding	Publications Output with Students	Electrician: Jurnal Rekayasa dan Teknologi Elektro (SINTA-4) P-ISSN: 2549-3442 DOI: https://doi.org/10.23960/elc.v17n1.2296 Date: 31/01/2023	Electrician: Jurnal Rekayasa dan Teknologi Elektro Vol. 17, No. 1 Januari 2023, pp. 71-76
24	2023	Auto Discover Virtual Private Network Using Border Gateway Protocol Route Reflector Author: 3 rd & Corresponding	Publications Output with Students	Conference Proceeding P-ISBN: 978-1-6654-6031-6 DOI: 10.1109/COMNETSAT5603.2022.9994439 Date: 02/01/2023	vol: 2023-Jan issue: 2023-01-02 pp. 123-129

No.	Year	Article Title	Description	Journal Name	Volume/ No/ Year
25	2023	QoS Analysis on VoIP with VPN using SSL and L2TP IPsec Method Author: 3 rd & Corresponding	Output of the Master's Thesis Research Grant Publication	Conference Proceeding P-ISBN: 978-1-6654-6031-6 DOI: 10.1109/COMNETSAT5603.3.2022.9994572 Date: 02/01/2023	vol: 2023-Jan issue: 2023-01-02 pp. 130-136
26	2023	Solar Panel Drive Design Based Internet of Things Author: 3 rd	Young Research Output period 2022/2023	CCIT (SINTA 3) P-ISSN: 1978-8282 DOI: https://doi.org/10.33050/ccit.v16i1.2363 Date: 17/01/2023	CCIT Vol. 16, No. 1, Jan 2023, pp. 100-110

* Write down the sources of funding both from the DIKTI research scheme and from other sources.

J. Oral Presentation in the Last 3 Years

No	Seminar	Article Title	Date and Place
1	2024 FORTEI International Conference on Electrical Engineering (FORTEI – ICEE)	Implementation and Design of Fiber To The Building using Higher Splitter Ratio Method	24-25 Oktober 2024, Universitas Udayana, Bali, Indonesia
2	2024 FORTEI International Conference on Electrical Engineering (FORTEI – ICEE)	Vulnerability Analysis on Internet of Things (IoT) Networks using Raspberry Pi and Open Web Application Security Project (OWASP)	24-25 Oktober 2024, Universitas Udayana, Bali, Indonesia
3	2024 FORTEI International Conference on Electrical Engineering (FORTEI – ICEE)	LTE-Advanced Network Planning with Inter-Band Non-Contiguous Carrier Aggregation in Mampang Prapatan	24-25 Oktober 2024, Universitas Udayana, Bali, Indonesia
4	2024 FORTEI International Conference on Electrical Engineering (FORTEI – ICEE)	Wireless Sensor Network for Power Control and Monitoring Public Street Lighting with Earthquake Early Warning	24-25 Oktober 2024, Universitas Udayana, Bali, Indonesia
5	2024 IEEE 6 th Symposium on Computers & Informatics (ISCI)	Comparison of LTE-A Network Performance using Inter-Band Carrier Aggregation Method	10-11 August 2024, Kuala Lumpur, Malaysia
6	2024 IEEE 6 th Symposium on Computers & Informatics (ISCI)	Smart Home Control System Design using Internet of Things Based Energy Harvesting Technology	10-11 August 2024, Kuala Lumpur, Malaysia
7	2024 IEEE 6 th Symposium on Computers & Informatics (ISCI)	Analysis and Identification of Distributed Denial of Service Attacks Using Intra-Domain Messaging Schemes	10-11 August 2024, Kuala Lumpur, Malaysia
8	25 th International Seminar on Intelligent Technology and Its Applications (ISITIA)	Development of the Spirometry Method Using the ECSC EQUATION Method Presenter Certificate: Link Author Certificate: Link	10-12 July 2024, Institut Teknologi Surabaya, Lombok, Indonesia

No	Seminar	Article Title	Date and Place
9	2023 International Conference on Radar, Antenna, Microwave, Electronics, and Telecommunications (ICRAMET)	Simulation and Analysis of Link Failover Using Routing Border Gateway Protocol (BGP) Multi-Protocol Label Switching (MPLS) Networks Presenter Certificate: Link	15-16 November 2023, BRIN, Bandung, Indonesia

K. Book Works in the Last 5 Years

No	Judul Buku	Tahun	Jenis	Jumlah Halaman	Penerbit
1	Keamanan sistem informasi : perlindungan data dan privasi di era digital ISBN: 978-623-10-9466-7	2025	Book Chapter	155	PT. Hadla Media Informasi
2	Electrical Engineering : An Overview: From Theory To Practice ISBN: 978-629-95833-7-0	2025	Book Chapter	152	PT. Mind Power Publishing
3	Keamanan Jaringan Digital – Advanced Wireless Communication ISBN: 978-623-01-4109-6	2024	Buku Referensi	146	Andi Offset
4	Pengantar sistem informasi : konsep, teknologi, dan implementasi ISBN: 978-623-10-9872-6	2025	Book Chapter	317	PT. Hadla Media Informasi

L. Acquisition of Intellectual Property Rights (IPR) in the Last 5-10 Years

No	IPR Title	Year	Type	P/ID Number
1	Sketsa TESLA-Bi	2024	Sketch 13 Juni 2024	EC00202449692
2	Peningkatan Diversitas Produk Lemari Loker Otomatis Untuk Fasilitas Prasarana Di Sekolah Pusat Kegiatan Belajar Masyarakat (PKBM) Wiyata Utama	2024	Video Recording Work 13 Juni 2024	EC00202449686
3	Program Pengabdian Kepada Masyarakat: Penerapan Teknologi Elektro Menggunakan Website Sebagai Media Ilmu Komunikasi Digital Berbasis TIK di PKBM Amari	2024	Poster 25 September 2024	EC002024193919
4	APLIKASI TES MATA PINTAR: PENYEDIA LAYANAN TES MATA DARING	2024	Computer programs 21 Desember 2024	EC002025030052
5	Perancangan Sistem Informasi Posyandu Berbasis Web untuk Meningkatkan Layanan Kesehatan Ibu dan Anak di Era Teknologi	2025	Computer programs 07 Maret 2025	EC002025028707

All data that I have filled in and is stated in this bio is true and can be held accountable legally. If in the future there are discrepancies with reality, I am willing to accept sanctions. Thus, I made this bio honestly.

Jakarta, 17th December 2025

(Lukman Medriavin Silalahi)

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