



CURRICULUM VITAE

Krismadinata, ST., MT., Ph.D.

Faculty: Fakultas Teknik

Study Programs: Teknik Elektro Industri

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Biography

Scopus of the Last 5 Years

EXPERIMENTAL INVESTIGATION OF WATER TO AIR HEAT EXCHANGER PERFORMANCE AS PASSIVE COOLING STRATEGY ON VENTILATION SYSTEM IN TROPICAL REGION. EUREKA, Physics and Engineering, Lapisa R., 2023

A Systematic Literature Review of Teaching and Learning on Object-Oriented Programming Course. International Journal of Information and Education Technology, Efan, 2023

Optimized Design of Residential Building Envelope in Tropical Climate Region: Thermal Comfort and Cost Efficiency in an Indonesian Case Study. Journal of Architectural Engineering, Lapisa R., 2022

E-learning Courseware Development for Power Electronics Course. International Journal of Interactive Mobile Technologies, Krismadinata, 2022

COMPARISON OF VARIOUS CONDUCTION MODES FOR THREE-PHASE INVERTER. Journal of Theoretical and Applied Information Technology, Krismadinata K., 2022

The Interactive Multimedia Learning for Power Electronics Course. International journal of online and biomedical engineering, Krismadinata, 2022

OPTIMAL ALLOCATION AND SIZING OF CAPACITORS EMPLOYING PATTERN SEARCH OPTIMIZATION. Journal of Theoretical and Applied Information Technology, Astrid E., 2022

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DESIGN AND PERFORMANCE OF DUAL AXIS SOLAR TRACKER BASED ON LIGHT SENSORS TO MAXIMIZE THE PHOTOVOLTAIC ENERGY OUTPUT. Journal of Theoretical and Applied Information Technology, Asnil, 2022

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A New Syntax of Teaching Factory IR 4.0 Model in Vocational Education. *International Journal on Advanced Science, Engineering and Information Technology*, Yondri S., 2020

A new algorithm with different modulation index (MI) in cascaded h-bridge multilevel inverters (CHB MLIS). *Journal of Theoretical and Applied Information Technology*, Omar R., 2019

Passive cooling strategies in roof design to improve the residential building thermal performance in tropical region. *Asian Journal of Civil Engineering*, Lapisa R., 2019

Development of Industrial Electrical Installation Trainer Nuanced to Training within Industry for Students of Electrical Industrial Engineering Universitas Negeri Padang. *Journal of Physics: Conference Series*, Elfizon, 2019

Power system analysis course learning: A review. *International Journal of Engineering and Advanced Technology*, Aini Z., 2019

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Development of Blended Learning Model Based on Project in Computer Network Design and Management. Journal of Physics: Conference Series, Saputra R., 2019

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The application of Research Based Learning Model in electric power system protection course. Journal of Physics: Conference Series, Liliana, 2019

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COMPARISON OF VARIOUS CONDUCTION MODES FOR THREE-PHASE INVERTER. Journal of Theoretical and Applied Information Technology 100 (7), 2022, K KRISMADINATA¹², I HUSNAINI¹², A ASNIL¹², RO REMON LAPISA, 2022

Monitoring Hasil Pelacakan Cahaya Matahari Sumbu Tunggal. *MSI Transaction on Education* 3 (1), 15-28, 2022, WA Putri, K Krismadinata, 2022

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Rancang Bangun Sistem Keamanan Pintu Gudang Menggunakan RFID Berbasis IoT. *MSI Transaction on Education* 3 (4), 175-186, 2022, KD Zulfian, K Krismadinata, 2022

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Nagari Mandiri Energi dengan Pembangkit Listrik Tenaga Mikro Hidro. *Suluh Bendang: Jurnal Ilmiah Pengabdian Kepada Masyarakat* 22 (3), 658-671, 2022, K Krismadinata, A Asnil, I Husnaini, T Andayono, M Yandra, R Lapisa, 2022

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Integrated Solar Thermal-induced Ventilation With Thermoelectric Generator Untuk Efisiensi Energi Dan Kenyamanan Bangunan. Pd-penelitian Dasar, Leader: Remon Lapisa, Implementation Year: 2022

Rancang Bangun Training Kits Dc-dc Converter Sebagai Media Pratikum Elektronika Daya Dengan Graphical User Interface. Pt-penelitian Terapan, Leader: Krismadinata, Implementation Year: 2022

Pemodelan Dan Karakterisasi Electronic Load Controller Generator Induksi Untuk Pembangkit Listrik Tenaga Piko Hidro. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Krismadinata, Implementation Year: 2022

Alternatif Peningkatan Produksi Energi Listrik Pada Pembangkit Listrik Tenaga Surya Menggunakan Konsep Pelacak Posisi Matahari. Pd-penelitian Dasar, Leader: Asnil, Implementation Year: 2022

Alternatif Peningkatan Produksi Energi Listrik Pada Pembangkit Listrik Tenaga Surya Menggunakan Konsep Pelacak Posisi Matahari. Pdpt-penelitian Dasar, Leader: Asnil, Implementation Year: 2021

Pemodelan Dan Karakterisasi Electronic Load Controller Generator Induksi Untuk Pembangkit Listrik Tenaga Piko Hidro. Pdpt-penelitian Kerjasama Perguruan Tinggi Luar Negeri Dasar, Leader: Krismadinata, Implementation Year: 2021

Integrated Solar Thermal-induced Ventilation With Thermoelectric Generator Untuk Efisiensi Energi Dan Kenyamanan Bangunan. Pdpt-penelitian Dasar, Leader: Remon Lapisa, Implementation Year: 2021

Rancang Bangun Training Kits Dc-dc Converter Sebagai Media Pratikum Elektronika Daya Dengan Graphical User Interface. Ptpt-penelitian Terapan, Leader: Krismadinata, Implementation Year: 2021

Manajemen Energi Bangunan Berbasis Internet Of Thing. Penelitian Dasar, Leader: Krismadinata, Implementation Year: 2020

Aplikasi Integrasi Pembangkit Listrik Tenaga Surya Dengan Pemanas Surya Untuk Rumah Hemat Energi. Penelitian Terapan Unggulan Perguruan Tinggi, Leader: Krismadinata, Implementation Year: 2020

Rancang Bangun Smart Halte Hemat Energi Dengan Integrasi Pembangkit Listrik Tenaga Surya Dan Termoelektrik. Penelitian Pengembangan, Leader: Krismadinata, Implementation Year: 2020

Rancang Bangun Penyearah Terkendali Tiga Fasa Untuk Simulator Pembangkit Listrik Tenaga Surya (plts). Penelitian Dasar, Leader: Asnil, Implementation Year: 2020

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Penerapan Kendali Kecepatan Tanpa Sensor Pada Penggerak Kendaraan Listrik Berbasis Teknologi Fpga (field Programmable Gate Array). Penelitian Unggulan Perguruan Tinggi Dasar, Leader: Risfendra, Implementation Year: 2019

Aplikasi Integrasi Pembangkit Listrik Tenaga Surya Dengan Pemanas Surya Untuk Rumah Hemat Energi. Penelitian Terapan Unggulan Perguruan Tinggi, Leader: Krismadinata, Implementation Year: 2019

Rancang Bangun Smart Home Berbiaya Rendah, Hemat Energi Dan Tahan Gempa Pada Daerah Tropis Dan Rawan Bencana. Penelitian Unggulan Perguruan Tinggi Dasar, Leader: Krismadinata, Implementation Year: 2019

Community Service of the Last 5 Years

Pengembangan Pusat Produksi Peralatan Praktikum Teknologi Kejuruan. Program Pengembangan Usaha Produk Intelektual Kampus (ppupik), Leader: Krismadinata, Implementation Year: 2022

Rancang Bangun Pembangkit Listrik Tenaga Piko Hidro Sebagai Sumber Energi Berkelanjutan Ramah Lingkungan Bagi Masyarakat Ngalau Baribuik Batu Gadang Padang. Program Pengembangan Nagari Binaan (ppnb), Leader: Remon Lapisa, Implementation Year: 2022

Pengembangan Pusat Produksi Peralatan Praktikum Teknologi Kejuruan. Program Pengembangan Usaha Produk Intelektual Kampus (ppupik), Leader: Krismadinata, Implementation Year: 2021

Peningkatan Kompetensi Bidang Internet Of Thing (iot) Melalui Workshop Perancangan Dan Aplikasi Iot Berbasis Arduino Di Smk N 1 Sutera Kabupaten Pesisir Selatan. Program Kemitraan Masyarakat (pkm), Leader: Asnil, Implementation Year: 2020

Peningkatan Kompetensi Guru Dalam Penguasaan Teknologi Informasi Dan Komunikasi Melalui Pelatihan Pengembangan Media Pembelajaran Berbasis Android. Program Kemitraan Masyarakat (pkm), Leader: Dwiprima Elvanny Myori, Implementation Year: 2019

Peningkatan Produksi Pertanian Melalui Irigasi Berbasis Energi Terbarukan Menuju Nagari Mandiri Energi Di Kenagarian VII Koto Talago Kecamatan Guguk Kabupaten 50 Kota. Program Pengembangan Nagari Binaan (ppnb), Leader: Krismadinata, Implementation Year: 2019

IPR's of the Last 5 Years

Data Logger Karakteristik Panel Surya. Inventor: Asnil, Krismadinata, Irma Husnaini, Dhalmiga Pratama, Bagus Suryanto, Publication Date: 2021-07-01

BOOST CONVERTER. Inventor: Asnil, Krismadinata, Irma Husnaini, Junaidi Akbar, Publication Date: 2022-05-15

Sistem Pelacak Posisi Matahari Menggunakan Sumbu Ganda. Inventor: Asnil, Krismadinata, Irma Husnaini, Dhalmiga Pratama, Bagus Suryanto, Publication Date: 2021-07-01

BUCK CONVERTER. Inventor: Asnil, Krismadinata, Irma Husnaini, Junaidi Akbar, Publication Date: 2022-05-15

Aplikasi Pengendali PI dan PID Pada Kendali Kecepatan Motor DC Shunt. Inventor: Irma Husnaini, ST., MT; Krismadinata, ST., MT., Ph.D; Asnil, S.Pd., M.Eng, Publication Date: 2020-11-18

: PROTOTYPE RANCANG BANGUN PENYEARAH TERKENDALI TIGA FASA UNTUK SIMULATOR PEMBANGKIT LISTRIK TENAGA SURYA (PLTS). Inventor: Asnil, Krismadinata, Irma Husnaini, Publication Date: 2019-11-27

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Panduan praktikum elektronika daya dengan pendekatan saintifik. ISBN: 9786236766705, Publisher: CV. Sarnu Untung, Year: 2022

Pemrograman visual. ISBN: 9786233721752, Publisher: Rajawali Pers, Year: 2021

Pendidikan vokasi di revolusi industri 4.0. ISBN: 9786239228415, Publisher: Persatuan Guru Republik Indonesia (PGRI) Provinsi, Year: 2019
