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*Ir. Surya Hardi, M.S., Ph.D. dilahirkan di Medan pada tanggal 07 Juni 1959, merupakan seorang dosen di Universitas Sumatera Utara dengan bidang ilmu Tekik Elektro. Beliau menyelesaikan pendidikan terakhirnya pada jenjang S3 di Fakultas Kejuruteraan Sistem Elektrik (Teknik Electro) Program Studi Kejuruteraan Sistem Elektrik Universiti Malaysia Perlis (UniMAP) pada tahun 2006-2015. Penghargaan yang diraih beliau, yaitu Certificate Presenter serta Certificate Presenter.*

## Publications

2026
Prosiding seminar internasional

### Analysis of Parameters That Affect the Safety of Substation Grounding Grids in Non-Homogeneous Soils

SURYA HARDI , FAHMI

2025
Jurnal internasional bereputasi

### Techno-economic optimization of hybrid renewable energy systems for household energy management

SURYA HARDI , FAISAL IRSAN PASARIBU , SUWARNO , AHMAD TAUFIK , ALBERT PANJAITAN

2025
Prosiding seminar internasional

### The Influence of Soil Two-Layer Structures on Substation Safety in Lightning Strike Conditions

SURYA HARDI

2025
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### Analysis of Soil Types and Grid Configurations on Substation Grounding for Safety Design Due to Lightning Strike

SURYA HARDI , Muhd Hafizi Idris

2025
Prosiding seminar internasional

### Induction Motor Performance Under Voltage Sag Type I, Type II, and Type III: Experimental Study

SURYA HARDI , AHMAD ARIF , DESMAN JONTO SINAGA , MUHAMMAD DANI SOLIHIN , Muzamir Isa

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Artikel ilmiah

### Induction Motor Performance Under Voltage Sag Types I, II and III: Experimental Study

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### Multi-Stage ANN Model for Optimizing the Configuration of External Lightning Protection and Grounding Systems

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## External Lightning Protection System modeling on photovoltaic using ATP Draw

YUWALDI AWAY , ROHANA , SURYA HARDI , NASARUDDIN

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## PENILAIAN KEANDALAN DAN EKONOMIS PENYULANG TEGANGAN MENENGAH DENGAN FAILURE MODE EFFECT ANALYSIS

MHD FAHMI SYAWALI RIZKI , SURYA HARDI

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## Reactive power optimization analysis on static VAR compensator with fast decoupled method

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## Analysis of soil resistivity improvement with variations of bentonite and chemical for grounding of electrical equipment

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## Effect of harmonic distortion on distribution feeder losses serving housing load

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## Comparative study of static var compensator and capacitor bank for increasing transmission lines performance

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## PEMODELAN PERLINDUNGAN SAMBARAN PETIR PADA TRANSFORMATOR DAYA DI GARDU INDUK TEGANGAN TINGGI

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## The Technique of Voltage Level Time Division Based on Maximum Pulse Width to Reduce Total Harmonic Distortion on Multilevel Transformerless Photovoltaic Inverter (MLTPVI) System

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## The Technique of Voltage Level Time Division Based on Maximum Pulse Width to Reduce Total Harmonic Distortion on Multilevel Transformerless Photovoltaic Inverter (MLTPVI) System

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## Mitigation of soil resistivity using composition of zeolite, NaCl, and charcoal

SURYA HARDI

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## Simulation of induction motor behavior under voltage sags using alternative transient program

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## Mitigation of voltage sags in distribution line system using static VAR compensator and static synchronous compensator

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## Improved Quality of using Voltage Static Var Compensator and Capacitor Bank on the Transmission Line

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SURYA HARDI

2021
Prosiding seminar internasional

## Modeling Of Generator Neutral Grounding Through Distribution Transformer Using Lab View Graphical User Interface

SURYA HARDI

2020
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## Influence of Location and Capacity of Distributed Generations on Voltage Sags Mitigation Using Alternative Transient Program

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2020
Prosiding seminar internasional

## Influence of Static VAR Compensator Application for Improving Power Quality in Distribution Lines Supplied Industry

SURYA HARDI

2019
Prosiding seminar internasional

## Modeling of Substation Grounding Grid Design Using Lab View Graphical User Interface

SURYA HARDI

2019
Prosiding seminar internasional

## A Study on Usability Requirement for Redesigning Student Information System

SURYA HARDI , FANINDIA PURNAMASARI

2019
Prosiding seminar internasional

## Study on AC Contactor Performance UnderVoltage Sags

SURYA HARDI

2019
Prosiding seminar internasional

## Prediction system of carbon monoxide toxic gas monitoring using double moving average method

SURYA HARDI , FAHMI , SUHERMAN

2019
Jurnal internasional

## Ride Through Testing of Variable Speed Drive Due To Voltage Sag Types (Types I, II and III)

SURYA HARDI

2015
Prosiding seminar internasional

## Accurate Phase to Phase Fault Resistance Calculation Using Two Terminal Data

SURYA HARDI

2013
Prosiding seminar internasional

## Core Loss Characteristics Analysis of Power Transformer Under Different Frequencies Excitation

SURYA HARDI

# Community Services

2026

## PENGURUS BADAN KEMAKMURAN MASJID AL-IKHLAS KELURAHAN SUKA MAJU KECAMATAN MEDAN JOHOR KOTA MEDAN PERIODE 2024-2029

SAPARUDDIN , SURYA HARDI

2024

## PENGURUS BADAN KEMAKMURAN MASJID AL-IKHLAS KELURAHAN SUKA MAJU KECAMATAN MEDAN JOHOR KOTA MEDAN PERIODE 2024-2029

SURYA HARDI

2024

## Susunan Pengurus Badan Kemakmuran Masjid Al-Ikhlas

FATHIA RAHMADINI , SURYA HARDI