



## Ida Bagus Fery Citarsa, S.T., M.T

Power System Engineering

Bachelor's degree (Electrical Engineering) Institut Teknologi Nasional, Malang 1997

Master's degree (Electrical Engineering – Power System) Universitas Gadjah Mada, Yogyakarta 2001

### Employment

Lecturer Undergraduate's program in Electrical Engineering, Engineering Faculty University of Mataram, Indonesia Mar, 1998

### Research and development projects over the last 5 years

1. Design of Electronic Transformer (Solid State Transformer) on the power distribution system (Dikti funds-2020)
2. Desain power converter for improving efficiency and sustainability of solar panel power plant (PLTS) (Dikti funds-2019)
3. Performance analisis of mini Solar panel Power plant with using DC network (Internal fund-2018)
4. Design of DC/DC Converter for Fast Charging Batere (Internal fund-2017)

### Industry collaborations / Community Services over the last 5 years

1. Counseling on Safe Electricity Systems and Independent Electric Power Supply in Cemara Hamlet, South Sheet Village, Lembar District, West Lombok (2017)
2. Independent Electric Power Supply for Electric Power Supply in Gili Gede Indah Village, Sekotong Tengah District, West Lombok Regency (2017)
3. Utilization of Independent Electric Power Supply and Safe Electric Power in Buani Hamlet, Bentek Village, Gangga District, North Lombok Regency (2018)
4. Independent Electric Power Supply for Electric Power Supply in Gili Gede Indah Village, Sekotong Tengah District, West Lombok Regency (2018)
5. 220V Led Lamp Engineering Training Into 12V Led Lamps For Lighting In Dusun Buani (2019)
6. Counseling on Correct and Safe Household Electrical Installation in Dusun Buani (2019)
7. Solar Cell Electric Power Supply For Street Lighting In Dusun Buani (2020)
8. Solar Cell Electrical Power Supply For RT. III of the Kodya Asri Housing Mataram Electrical Power Supply (2021)

Patents and  
proprietary rights

1. Power Electronics Transformator (book) 2021
2. Teknik Modulasi Inverter jembatan-H (book) 2020

Important publications  
over the last 5 years

1. Modeling and Power Management of Electric Vehicle Charging System (2021)
2. Carrier Based PWM Methods of Dual Cascaded Inverter for Solar Power Plant Solid State Transformer (2021)
3. Design and Control a high gain synchronous Buck Converter for a Solid state Distribution transformer , (2020)
4. Modulation Technique for Single-Phase Cascaded H-Bridge Multilevel Inverter using Arduino Mega 2560(2022)
5. Comparison of 2-stage 3phase inverter modulation techniques to produce variable output voltage (2020)
6. Effect of PWM modulation technique on three-phase inverter output for variable speed regulation of induction motor (2018)
7. A New Modulation Technique for A Three-Cell Single-Phase CHB Inverter with Un-Equal DC-Link Voltage for Improving Output Voltage Quality (2018)
8. Realization of cascaded H-Bridge 5 stage 1 phase multi-level inverter using Arduino Mega 2560 (2017)

Activities in specialist  
bodies over the last 5  
years