

## STAFF HANDBOOK (CV)



Name	Irham Fadlika, S.T., M.T.			
Post	Intelligent Power Electronics and Smart Grid (IPESG)			
Academic Career	Bachelor of Science	Electrical Power Engineering, Bandung Institute of Technology		2013
	Master of Science	Electrical Power Engineering, Bandung Institute of Technology		2014
Employment	Lecturer	Universitas Negeri Malang		2015-present
Research and development project over the last 5 year	High Voltage Gain Low Ripple Switched-Capacitor-based DC-DC Capacitor for Microgrid			2020-present
	Dual Active-Switched-Capacitor Quasi Z-Source Multilevel Inverter for Photovoltaic Generation System			2020-present
	Novel Z-Source Inverter Topology for Photovoltaic Generation System			2018
Industry collaborations over the last 5 year	Optimization of Control Strategies for Small Scale PV-Battery-Diesel Hybrid Systems PLTH Celagen (in collaboration with GIZ Endev Indonesia)			2020-present
	Training and Manufacturing of Remote Monitoring System for Photovoltaic (PV) Minigrid (in collaboration with GIZ Endev Indonesia)			2019
	Protection System Inspection with PT Pama Persada			2019
Patents and propriety right	No	Title	Year	P/ID No.
	1	Dual Active-Switched Capacitor QZSI	2019	PID201904861
	2	Enhanced Boost Active Switched Impedance Quasi Z-Source Inverter	2019	PID201904862
	3	Edukids Internet of Things	2019	EC00201982472
	4	Automatic Water Filtration Control for Rural Area	2019	PID201901315
	5	Hybrid PV and Battery Wireless Balloon for Disaster Area	2019	IDS000002723
Important publications over the last 5	“Cascaded H-Bridge Dual Active Switched-Capacitor Quasi Z-Source Inverter,” 8th IEEE International Conference on Sustainable Energy Engineering and Application (ICSEEA). To be published			2020

year	“A New Transformerless High Voltage Gain DC-DC Converter for DC Microgrid,” 8th IEEE International Conference on Sustainable Energy Engineering and Application (ICSEEA). To be published.		2020
	Dual Active-Switched-Capacitor Quasi-Z-Source Inverter," 2019 IEEE Conference on Energy Conversion (CENCON), Yogyakarta, Indonesia, 2019, pp. 200-206		2019
	"Enhanced Boost Active Switched Impedance Quasi Z-Source Inverter," 2019 International Conference on Electrical Engineering and Informatics (ICEEI), Bandung, Indonesia, 2019, pp. 342- 347		2019
Activities in specialist bodies over the last 5 year	Academic Plagiarism Prevention and Control (TP3A) UM	Head of Division	2019-present
	Centre of Advanced Material for Renewable Energy (CAMRY) UM	Member	2019-present
	IEEE	Member	2016-present