



CURRICULUM VITAE

PERSONAL IDENTITY

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EDUCATION BACKGROUND

Tahun Lulus	Jenjang	Perguruan Tinggi	Jurusan/ Bidang Studi
1989	S1	ITS	Teknik Fisika
1996	S2	INP GRENoble FRANCE	Otomatik- Produksi
1999	S3	INP GRENoble FRANCE	Otomatik- Produksi
2000-2001	Post Doc	ENITIAA FRANCE	REACTIVE EXTRUDER

TRAINING COURSES ATTENDANCE

Tahun	Training	Penyelenggara
2004	Participant training program Extruder	Texas A&M, USA
2004	Participant of Workshop Standard Operating Procedure (SOP) and Measurement Performance Indicator , Lokakarya, ITS	ITS
2005	Participant training program Energy Conservation	Yokohama-Japan
2006	Participant of Workshop Professional Certification (Professional Engineer) in Industry	Deperindag Jatim
2007	Participant training program Energy Manager	Yokohama-Japan
2009	Participant training of the trainer on energy efficiency in industrial sector	Deperindag Jakarta
2013	Participant training Green ship Associate (GA)	Green Building Council Indonesia
2014	Participant training Green ship Professional (GP)	Green Building Council Indonesia
2015	Participant training Hydro Dynamic	Green Building Council Indonesia
2017	Participant training technical guidelines for professional certification	Yogyakarta- BNSP



2019	Participant Scopus indexed research paper writing workshop	Surabaya – LPPM PTNBH JAWA TIMUR
2019	Participant training assessor of competency	Surabaya - ITS
2019	Participant training Audit Energy	Bekasi – Prima Daya Institute
2019	Building energy auditor professional certification	Bekasi - BNSP
2019	Industry energy auditor professional certification	Bekasi - BNSP
2022	Industry Manager energy professional certification	
2022	Building manager energy professional certification	

SOME OF WORK EXPERIENCE

Jabatan	Institusi	Tahun ... s.d. ...
Kasie Kerja Praktek	Teknik Fisika FTI- ITS	1991 s.d 1992
Kasie Tugas Akhir	Teknik Fisika FTI - ITS	1992 s.d 1994
Kepala Workshop Instrumentasi	Teknik Fisika FTI - ITS	2002 s.d 2003
Ketua Jurusan	Teknik Fisika FTI - ITS	2003-2006
Kepala Workshop Instrumentasi	Teknik Fisika FTI - ITS	2007-2011
Ketua Jurusan	Teknik Fisika FTI - ITS	2011-2014
Ketua Badan Kerjasama Pendidikan Teknik Fisika (BKSPTF) Indonesia		2016 sd 2020
Wakil Ketua Badan Kejuruan Teknik Fisika (BKTF)	PII (Persatuan Insinyur Indonesia)	2016 sd 2020
Kepala workshop Instrumentasi	Teknik Fisika FTI-ITS	2016-2020
Kepala Departemen Teknik Instrumentasi	Teknik Instrumentasi FV-ITS	2020-2024

SOME OF PROFESIONAL EXPERIENCE

Tahun	Kegiatan
2005	Kajian kinerja equipments pada Pabrik Cement Retarder PT Petrokimia Gresik untuk mengetahui tingkat efisiensinya.
2006	Proctor ISA pada sertifikasi teknisi instrument IPMOMI PAITON Jatim
2009	Audit Energi di DPPU PERTAMINA Ngurah Ray Bali
2010	Kajian fenomena nyantolnya pompa pada DPPU PERTAMINA Ngurah Ray Bali
2010	Audit Energi di Terminal BBM PERTAMINA Manggis Karang Asem-Bali
2011	Audit Energi di Terminal BBM PERTAMINA Tanjung Perak Surabaya
2011	Audit Energi di Terminal BBM PERTAMINA Tanjung Wangi Banyu wangi
2011	Study of Injection Wells Instrumentation for Chevron Geothermal Indonesia Ltd



2012	Audit Energi di Terminal BBM PERTAMINA Malang Jawa Timur
2012	Audit Energi di Terminal Transit BBM PERTAMINA Tuban Jawa Timur
2012	Audit Energi di Terminal BBM PERTAMINA Makasar Sulawesi selatan
2012	Audit Energi di Terminal BBM PERTAMINA Kendari Sulawesi
2012	Audit Energi di Terminal BBM PERTAMINA Donggala Sulawesi
2012	Audit Energi di Terminal BBM PERTAMINA Badas SUMBAWA
2012	Trainer Basic Process Control di Unit Operation IV PT PERTAMINA
2012	Lead HAZID Project RU VI Balongan PT PERTAMINA
2013	Audit Energi di DPPU PERTAMINA JUANDA SURABAYA
2013	SIL project SPM, Subsea Pipeline RU VI PT PERTAMINA Balongan
2013	SIS project RU VI PT PERTAMINA Balongan
2013	Trainer Basic Process Control di PT PUSRI Palembang
2014	Audit Energi di DPPU PERTAMINA Ngurah Ray Bali (ISO 5001)
2014	Audit Energi di Terminal BBM PERTAMINA Tanjung Perak Surabaya
2014	Audit Energi di Terminal BBM PERTAMINA WAYAME Ambon
2014	Trainer Basic Process Control di PT PUSRI Palembang
2014	Anggota HAZID Rekondisi JETTY Project RU II DUMAI PT PERTAMINA
2014	Trainer HAZOP terhadap karyawan West Of Madura PT PERTAMINA
2014	Redrawing PFD dan P&I Diagram Terminal BBM Wayame Ambon
2015	HAZOP Single Pooling Moving, Sub Sea Pipeline PERTAMINA RU VI Balongan
2015	Audit Energi di Terminal BBM PERTAMINA Sanggaran Denpasar Bali
2015	Audit Energi di Terminal BBM PERTAMINA Tuban Jawa Timur
2015	Audit Energi di Terminal BBM PERTAMINA Manggis Karang Asem Bali
2015	Kajian Utilisasi gas PGN di industry (PT ROMAN KERAMIK, PT KARUNIA ALAM SEJAHTERA, PQ SILICAS, PT PETROCENTRAL)
2015	Trainer Basic Instrument pada karyawan PGN
2015	Trainer hasil kajian utilisasi gas pada karyawan PGN
2016	Audit Energy DPPU Ngurah Rai Denpasar Bali
2016	Audit Energi TBBM Tanjung Wangi Banyuwangi Jawa Timur
2016	Audit Energi TBBM Camplong Sampang Madura
2016	M/E projek pagar pembatas RU VI PERTAMINA BALONGAN
2016	Risk Assessment Subsea Pipeline projek RDMP Pertamina RU V Balikpapan
2016	H2S Risik Assesment Joint Operation Body Pertamina Petrochina East Java
2016	Audit Energi PERTAMINA TBBM BIMA
2016	Audit Energi PERTAMINA TBBM AMPENAN LOMBOK
2016	Kajian Modernisasi pabrik drum aspal PERTAMINA BITUMEN Plant Gresik
2017	SIL Determination PERTAMINA RU IV Cilacap
2017	HAZOP Projek Os Us RDMP PERTAMINA RU V Balikpapan
2017	Feasibility Study pabrik drum aspal PERTAMINA BITUMEN Plant Gresik
2017	Audit Energi PERTAMINA TBBM MALANG
2017	Audit Energi TBBM Madiun
2017	Kajian Modernisasi pabrik drum aspal PERTAMINA BITUMEN RU IV Cilacap



2017	Pembuatan sistem instrumentasi <i>Paddle Wheel Edu Boat</i>
2017	HAZID FLARE STACK RDMP Project PERTAMINA RU V Balikpapan
2018	Jasa konsultasi Engineering Design of Jetties and Risk Assessment of Flare Relocation RDM RU V Balikpapan
2018	Konsultan <i>Water Meter with AMR (Automatic Meter Reading)</i> PDAM Surya Sembada Surabaya
2018	Trainer Predictive Analytic in Thermal Power Plant (PJB Ketintang Surabaya)
2018	Audit Energy TBBM Teneau KUPANG NTT
2018	Audit Energy PERTAMINA PELUMAS GRESIK
2018	Kajian HAZOP Pembangkit Listrik Tenaga SAMPAH Bantar Gebang BEKASI
2019	Nara Sumber dalam Rapat Kerja "Make AirNav 4.0" dari perspektif akademis
2019	Audit Energy Depot LPG PERTAMINA PANJANG LAMPUNG
2019	Audit Energy TBBM PERTAMINA PULAU BAAI BENGKULU
2019	Audit Energy TBBM PERTAMINA JAMBI
2019	Audit Energy DPPU PERTAMINA SULTAN THAHA JAMBI
2019	Audit Energy TBBM PERTAMINA PULAU BALAM BANGKA
2019	Audit Energy DPPU Ngurah Rai Denpasar - Bali
2019	Audit Energy TBBM PERTAMINA SANGGARAN Denpasar - Bali
2019	Pemateri Workshop Nasional "Audit Awal pada Bangunan dalam membangun system manajemen energy"
2020	Nara sumber Transformasi Prodi D3 AKMET menjadi Prodi D4 AKMET, Bandung
2020	Nara Sumber WEBINAR BKTF PII, AUDIT ENERGY dari Profesi Keteknik Fisikaan
2020	Nara Sumber WEBINAR Peran Pendidikan VOKASI di Era Revolusi Industry 4.0, UMAHA Sidoarjo
2020	WEBINAR Nearly Zero Building TEKNIK FISIKA UGM, Yogyakarta
2020	Audit Energy TBBM CAMPLONG SAMPANG MADURA
2020	Kajian HAZID-HAZOP di Terminal Curah Basah TERMINAL TELUK LAMONG
2020	Kajian INSTRUMENT di Terminal Curah Basah TERMINAL TELUK LAMONG
2020	Nara Sumber Focus Group Discussion Pendidikan Teknik Fisika di Era Revolusi Industry 4.0, INSTITUT TEKNOLOGI SUMATERA Lampung
2020	Nara Sumber Focus Group Discussion Membangun Link & Match dengan DUDI melalui kegiatan MAGANG dalam rangka program Merdeka Belajar Kampus Merdeka (MB KM), POLITEKNIK NEGERI JAKARTA
2020	Audit Energy PERTAMINA PELUMAS GRESIK
2021	Audit Energy TBBM TANJUNG WANGI BANYUWANGI
2021	NOISE MAPPING TBBM TANJUNG WANGI BANYUWANGI
2021	Audit Energy TBBM BANJAR MASIN
2021	Audit Energy DPPU SYAMSUDIN NOOR BANJARMASIN
2021	Nara Sumber Manajemen Energi bagi Unit atau Departemen dalam rangka



	menuju Program Smart Eco Campus ITS
2021	Nara Sumber Transformasi Prodi D3 Otomasi Industri (OSI) UNAIR menjadi prodi D4 Rekayasa Teknologi Instrumentasi dan Kontrol, UNIVERSITAS AIRLANGGA
2021	Anggota Reviewer BLUE PRINT PT PERTAMINA PERSERO
2022	NARA SUMBER TRAINING AUDIT ENERGY SIMT (Sekolah Inter Multi Disiplin Technology) ITS

RESEARCH EXPERIENCE		
Tahun	Penelitian	Keterangan
1996	Stability Robot Biped par ZMP (Zero Moment Point)	Thesis S2 INPG -France
1999	Stability control bioreactor anaerobe	Desertasi S3 INPG - France
2012	Peningkatan kualitas biogas melalui purifikasi dengan filter berbasis Water Scrubber	- STRANAS Tahun Pertama (I) - Ketua
2013	Peningkatan kualitas biogas melalui purifikasi dengan filter berbasis Water Scrubber	- STRANAS Tahun Kedua (II) - Ketua
2014	Peningkatan kualitas biogas melalui purifikasi dengan filter berbasis Water Scrubber	- STRANAS Tahun Ketiga (III) - Ketua
2014	Pengembangan teknologi ekstraksi biogas dari eceng gondok dengan bioreactor anaerob semi-batch	- PUPTN Tahun pertama (I) - Anggota
2015	Pengembangan teknologi ekstraksi biogas dari eceng gondok dengan bioreactor anaerob semi-batch	- PUPTN Tahun kedua (II) - Anggota
2016	Pengembangan teknologi ekstraksi biogas dari eceng gondok dengan bioreactor anaerob semi-batch	- PUPTN Tahun ketiga (III) - Anggota
2017	Pengembangan Teknologi Absorpsi gas H ₂ S pada filter biogas (<i>Wet Scrubber</i>) dengan mempergunakan kabut air	- Penelitian Prototype Dana Lokal ITS - Ketua
2018 - 2019	Perancangan dan pembuatan Micro Biogas Genset berfilter Wet Scrubber bertingkat	- Penelitian Unggulan Riset Perguruan Tinggi Dana Nasional Kluster Energi - Ketua
2020	PENGEMBANGAN ECU (ELECTRONIC CONTROL	- Penelitian



	UNIT) UNTUK MENJAGA STABILITAS OPERASIONAL GENSET BERBAHAN BAKAR BIOGAS	Prototype Dana Lokal ITS
2021	Prototype System pengendalian temperature pada Hybrid Eco Reefer Container berbasis IoT	- Ketua - Penelitian Kolaborasi Dana Lokal ITS
2021	RANCANG BANGUN PLANT PROCESS PENGOLAHAN BITTERN	- Ketua - Penelitian Kolaborasi Dana Lokal ITS
2021	PERANCANGAN I-METEOROLOGY : ALAT UKUR CUACA DIGITAL (SUHU, KELEMBAPAN, CURAH HUJAN, DAN KECEPATAN ANGIN) BERBASIS IoT	- Ketua - Penelitian Kolaborasi Dana Lokal ITS
2022	Perancangan system monitoring sampah dan limbah B3 di lingkungan kampus ITS berbasis IoT	- Ketua penelitian

Tahun	Abdi Masyarakat	Keterangan
2015	Pelatihan Manajemen Energi untuk staf di Jurusan atau Unit di ITS dalam rangka menunjang program ITS Eco Campus	- Abmas Reguler Dana Lokal ITS - Ketua
2016	Pelatihan Lanjutan Manajemen Energi untuk staf di Jurusan atau Unit di ITS dalam rangka menunjang program ITS Eco Campus	- Abmas Reguler Dana Lokal ITS - Ketua
2017	Evaluasi Indeks Konsumsi Energi (IKE) gedung Research Centre ITS melalui kegiatan Audit Energy	- Abmas Reguler Dana Lokal ITS - Ketua
2018	Perhitungan Cooling Load Gedung Research Centre ITS	- Abmas Berbasis Penelitian Dana Lokal ITS - Ketua
2019	RANCANG BANGUN SISTEM MONITORING <i>ENERGY CONSUMPTION</i> BERBASIS IoT	- Abmas Berbasis Penelitian Dana Lokal ITS - Ketua
2020	PENGEMBANGAN ECU (ELECTRONIC CONTROL UNIT) UNTUK MENJAGA STABILITAS OPERASIONAL GENSET BERBAHAN BAKAR BIOGAS	- Penelitian Prototype Dana lokal ITS - ketua
2021	Prototype System pengendalian temperature pada Hybrid Eco Reefer Container berbasis IoT	- Penelitian Konsorsium Dana lokal ITS - ketua



2021	Perancangan dan Pembuatan Serial Bittern Plant Process	- Penelitian Konsorsium Dana lokal ITS - ketua
2021	PERANCANGAN I-METEOROLOGY: ALAT UKUR CUACA DIGITAL (SUHU, KELEMBAPAN, CURAH HUJAN DAN KECEPATAN ANGIN) BERBASIS IOT	- Penelitian Konsorsium Dana lokal ITS - ketua
2021	BANK TLETONG BUMDES CURAH COTTOK : MENGUBAH TLETONG SAPI DARI LIMBAH MENJADI KOMODITAS SEBAGAI USAHA BISNIS BERKELANJUTAN UNTUK PENINGKATAN KESEJAHTERAAN DAN KEBERSIHAN LINGKUNGAN DESA CURAH COTTOK, KABUPATEN SITUBONDO	- Abmas Dana Lokal ITS - Anggota
2022	Rancang bangun system monitoring lingkungan terintegrasi di areal kampus ITS berbasis IoT	- Penelitian Keilmuan Dana lokasi ITS - ketua

Tahun	Publikasi Ilmiah	Keterangan
2014	Water Scrubbing for Removal of CO ₂ (Carbon Dioxide) and H ₂ S (Hydrogen Sulfide) in Biogas from Manure	- The 3rd Indonesia EBTKE-ConEx, 2014 - Correspond Author
2015	Development of biogas extraction technology of water hyacinth by using semi- batch anaerobic bioreactor	- ASTECHNOVA 2015, 25- 26 Nopember 2015, EastParc Hotel Yogyakarta - Correspond Author
2015	The Existence of Polynomial Solution of the Nonlinear	- ISICO 2015 : The Third Information Systems International Conference - Member
2015	Design Plant-wide Control to Waste Heat Recovery Generation on Cement Industry Based HYSYS	- Procedia Computer Science 72 (2015) 170 – 177 - Member
2016	DESIGN OF HYDRO POWER BY USING TURBINES KAPLAN ON THE DISCHARGE CHANNEL PAITON 1 AND 2	- ASTECHNOVA 2016, ISBN : 978-1-5090-3448-2;



		<p>IEEE catalog number : CFP16H55-CDR, East Park Hotel Yogyakarta</p> <p>- Correspond Author</p>
2016	<p>Pengembangan Teknologi Purifikasi Biogas (kandungan gas H₂S dan CO₂) dengan mempergunakan kombinasi Wet-Scrubber-Batugamping</p>	<p>- The 2nd Conference on Innovation and Industrial Applications (CINIA 2016), 18 Nopember 2016, Grand City Convention Hall, Surabaya</p> <p>- Correspond Author</p>
2017	<p>Control design for direct-drive robotic ARM using sliding mode control</p>	<p>- 2017 International Conference on Advanced Mechatronics, Intelligent Manufacture, and Industrial Automation (ICAMIMIA), Surabaya</p> <p>- Correspond Author</p>
2017	<p>Absorption Analysis of Gas H₂S on Biogas Purification Filter Using Wet Scrubber</p>	<p>- 3rd ISST: The 3rd International Seminar on Science and Technology (ISST) 2017 Graha ITS Surabaya, Indonesia, August 3, 2017</p> <p>- Correspond Author</p>
2018	<p>Biogas purification by using a combination of water and water mist absorption media (IM-E-24)</p>	<p>- IMRCS 2018, Indonesia-Malaysia Research Consortium, 21-22 November 2018, Research centre</p>



		ITS, Surabaya - Correspond Author
2018	Passive design (building envelope) impact to Cooling load of Research Centre Building ITS (IM-E-23)	- IMRCS 2018, Indonesia-Malaysia Research Consortium, 21-22 November 2018, Research centre ITS, Surabaya - Correspond Author
2018	Utilization of Waste Heat (off gas) from Electric Furnace No.4 to Generate Saturated Steam Using Waste Heat Recovery Boiler	- Engineering Physics International Conference (EPIC 2018), may 2018, Bumi Hyat Surabaya - Correspond Author
2018	Utilization of Heat Waste Energy Generated From Air Compressors As Boiler Feedwater Preheating, A Case Study in Smelter Plant Sorowako	- Engineering Physics International Conference (EPIC 2018), may 2018, Bumi Hyat Surabaya - Correspond Author
2019	DESIGN OF ENERGY CONSUMPTION MONITORING SYSTEM IoT BASED	- International Conference on Renewable Energy Research & Challenge (ICoRER) and The 12th Regional Conference on Energy Engineering (RCEnE) 2019, Banyuwangi, Indonesia, November 12th - 14th, 2019 - Correspond Author
2019	The uniqueness of designing an electronic control unit (ECU) on a biogas fuel generator	- AESAP 3rd 2019: The 3rd



		International Conference on Agricultural Engineering for Sustainable Agriculture Production, IPB International Convention Center Bogor, Indonesia, October 14-15, 2019 - Correspond Author
2020	Design of Output Power Control Systems based on Mass Flow Rate Comparison of Air-Fuel Ratio (AFR) on Dual Fuel Generator Set by using the PID Control Method	- International Journal of Technology 11 (3) 574-586 (2020), May 2020 - Member
2021	A Novel Simple Dipping-Nebulizing Water Absorption for Biogas Purification	- International Journal of Technology 12(1) 1442-1451 (2021), January 2021 - Correspond Author
2021	The design of fuel dryer in palm oil processing industries by utilizing the heat product of boiler based on computational fluid dynamic	- 4 th International Conference on Biomass and Bioenergy, "Challenges in Biomass, Bioenergy, and Biomaterials research and Development in a Rapidly Changing World", 9 - 10 August 20221 - Correspond Author
2021	Process Dynamics Modeling of H ₂ S Removal Plant at PT SAKA Indonesia Pangkah Limited Based on Artificial Neural Network	- 3 rd EPIC (Engineering Physics International Conference) 2021,



		15 August 2021 - Correspond author
2021	The Simulation Model of API Oil Separator Based on Artificial Neural Network at PT Saka Indonesia Pangkah Limited	- 3rd EPIC (Engineering Physics International Conference) 2021, 15 August 2021 - Correspond author
2021	Analysis of Heat Recovery Steam Generator Performance Through Simulation Based on Artificial Neural Network	- 3rd EPIC (Engineering Physics International Conference) 2021, 15 August 2021 - Correspond author
2022	Digital monitoring system for anaerobic bioreactor conditions based on information on biogas volume, biogas pressure and methane gas content	- The 7 th International Conference On Biomass and Bioenergy 2022 - Correspond Author

Surabaya, 30 August 2022

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