

# EZA YULIANTO SAPUTRO

Date of Birth : Sungailiat, 25 Juni 2000  
Religion : Moslem  
Address : Jln. Amal Bhakti RT. 1 Sungailiat, Bangka  
Phone : +62 821 8294 9832  
Email : [ezayulianto.saputro25@gmail.com](mailto:ezayulianto.saputro25@gmail.com)  
Linkedin : <https://www.linkedin.com/in/eza-yulianto-saputro/>



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## Personal Profile

I am an Applied Bachelor of Instrumentation Engineering from Polytechnic of Energy and Mineral Akamigas (PEM Akamigas Cepu) with GPA 3.52 (Cumlaude). I have professional licence (certification) as an Instrumentation Technician and HSE Operator from LSP PPSDM Migas. Having internship experienced in Oil and Gas company such as Energy Equity Epic Sengkang Pty. Ltd (2020), PT Kilang Pertamina Internasional RU VI Balongan (2018) and PPSDM Migas (2018). Fast learner, focus and highly motivated to develop my knowledge. I'm a Copyright Holder from KEMENKUMHAM RI (2021) and Awardee Scholarship from KESDM RI (2017 – 2021). Able to work as a team, passionate to working in any sector industries such as oil & gas, mining, manufacturing, etc.

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## Education Background

### **Polytechnic of Energy and Mineral AKAMIGAS Cepu, Central Java (2017 – 2021)**

*Instrumentation Engineering (Instrument and Electronic) | GPA : 3.52 (Cumlaude)*

- Able to drawing and reading Piping and Diagram (P&ID), Process Flow Diagram (PFD), Loop Drawing.
- Able to checking and calibrating Instrument Field Devices including Sensor, Transmitter and Control Valve.
- Strong concept in Basic Process Control System (BPCS) and Metering System.
- Skilled using Engineering software for simulation process and control.

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## Working Experiences

### **PT Batam Cyclelect (Batam, Riau Island)**

*Electrician (Contract : Agustus – September 2021)*

- Inspection of Instrument and Electrical Equipment on Shipyard
- Do insulation test / megger test on motor
- Cleaning and checking control panel on Shipyard
- Build a control panel for motor 3 phase

### **Energy Equity Epic Sengkang Pty. Ltd (Wajo, South Sulawesi)**

*Junior Instrument Engineer (Internship : January – February 2020)*

- Calibration of Instrument Field Devices (Sensor, Transmitter, etc)
- Calibration of Level, Temperature and Pressure Switch.
- Checking and adjustment process Indicator (Temperature Indicator and Pressure Gauge)
- Making Planning Schedule for Preventive Maintenance (Weekly) and progress report of work (daily)
- Calculation of Orifice Performance based AGA 3 International Standard
- Performance analysis of PID Control on Reflux Drum in Amine Regeneration Unit based Internal Model Control (IMC)

## **PT Kilang Pertamina Internasional RU VI Balongan (Indramayu, West Java)**

*Junior Instrument Engineer* (Internship : March 2018)

- Learning of Working Principles of Instrument Field Devices (Sensor, Transmitter, etc)
- Learning of P&ID, PFD in Utility Area
- Learning of working principles of Boiler, Deaerator, and Steam Turbine Generator.
- Learning Concepts of BPCS, SIS

## **PPSDM Minyak dan Gas Bumi (Blora, Central Java)**

*Junior Instrument Engineer* (Internship : November 2018)

- Learning of Working Principles of Instrument Field Devices (Sensor, Transmitter, etc)
- Learning of P&ID, PFD in Crude Distillation Unit (CDU)
- Learning of working principles of Furnace, Evaporator, DCS Centum VP, Safety Valve and Control Valve.

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## **Engineering Skills**

- |   |   |
|---|---|
| ▪ Calibration Instrument Fields                       | ▪ Aspen HYSYS                             |
| ▪ Piping & Instrumentation Diagram (P&ID) Design      | ▪ MATLAB Sumulation                       |
| ▪ Reading Loop Drawing and Process Flow Diagram (PFD) | ▪ Arduino IDE                             |
| ▪ Design and Tuning Control System                    | ▪ AutoCAD Electrical                      |
| ▪ Performance Analysis of Process Control System      | ▪ Visio                                   |
|   | ▪ Ms. Office (Word, Excel and Powerpoint) |
|   | ▪ P&ID Designer                           |

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## **Achievement**

- Copyright Holder about CDU Simulator from KEMENKUMHAM RI (2021)
- Awardee Full Scholarship from KESDM RI (2017 – 2021)
- Winner of Paper Competition (PEM Berimajinasi) (2019)
- Finalist LKTIN Mechanical Engineering Expo (MEE) UNJ (2019)
- TOP 5 SCADA Competition (MRAC) ITS (2018)

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## **Organizational Experience**

- Head of R&D Division in Instrument Student Association (HIMAINS) (2020)
- Speaker in Akamigas Menginspirasi (2019)
- Staff of Event Division in Aksioma Ramadan (2018)
- Staff of Social Department in Instrument Student Association (HIMAINS) (2018)

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## **References**

### **Mr. Susilo Handoko**

*PEM Akamigas Cepu | Head of Research Team & Senior Lecturer*

Phone : 0857-2615-2780

### **Mr. Agus Heriyanto**

*PEM Akamigas Cepu | Senior Lecturer*

Phone : 0812-9504-0648

### **Mr. Asepta Surya Wardhana**

*PEM Akamigas Cepu | Supervisor on Final Project*

Phone : 0818-381-531



KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL REPUBLIK INDONESIA  
BADAN PENGEMBANGAN SUMBER DAYA MANUSIA ENERGI DAN SUMBER DAYA MINERAL  
**POLITEKNIK ENERGI DAN MINERAL AKAMIGAS**  
(BERDASARKAN PERATURAN MENTERI ESDM NO. 55/2017)



# IJAZAH

diberikan kepada :

*Eya Yulianto Saputro*

NIM :171440015

Lahir di Sungailiat, tanggal 25 Juni 2000

telah menyelesaikan segala persyaratan pendidikan Sarjana Terapan dan dinyatakan **LULUS**  
pada Program Studi Teknik Instrumentasi Kilang, Bidang Minat Instrumentasi dan Elektronika

pada tanggal 30 Juni 2021,

sehingga kepadanya diberikan Ijazah dan gelar :

**Sarjana Terapan Teknik (S.Tr.T.)**



dengan segala kewenangan serta hak yang berhubungan pada Ijazah yang dimilikinya.

Cepu, 30 Juni 2021

Direktur,

Ketua Program Studi  
Teknik Instrumentasi Kilang,



Prof. Dr. R. Y. Perry Burhan, M.Sc.  
NIP.195902151987011001

Ir. Roni Heru Triyanto, M.T.  
NIP.196704261993031001

No. Ijazah : 203012021000043  
No. Seri : 2.0 - 0011

Akreditasi Program Studi  
No. : 3178/SK/BAN-PT/Ak-  
PNB/Dipl-IV/XI/2018





KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL REPUBLIK INDONESIA  
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**POLITEKNIK ENERGI DAN MINERAL AKAMIGAS**



TRANSKRIP / TRANSCRIPT

Nomor Transkrip / Transcript Number : T.203012021000043

A. Data Pribadi / Personal Data

Nama Mahasiswa / Name of Student : Eza Yulianto Saputro  
Tempat dan Tanggal Lahir / Place, Date of Birth : Sungailiat, 25 Juni 2000  
Nomor Induk Mahasiswa / Student ID Number : 171446015

Program Studi / Study Program : Teknik Instrumentasi Kilang / Refinery Instrumentation Engineering  
Bidang Minat / Field of Study : Instrumentasi dan Elektronika / Instrumentation and Electronic  
Program / Program : Sarjana Terapan / Bachelor of Applied Science

B. Prestasi Akademik / Academic Achievement

Kode / Code	Mata Kuliah / Course	SKS / Credit	Nilai / Score	Mutu / Grade
<b>Semester I</b>				
AK1010	Agama dan Etika Religion and Ethics	2	A	8
AK1020	Bahasa Indonesia Indonesian	2	A	8
AK2020	Fisika Dasar Fundamental Physics	3	B	9
AK2030	Bahasa Inggris English	2	BC	5
AK2040	Matematika Dasar Basic Mathematics	2	A	8
AK4101	Pengantar Industri Migas Introduction to Oil and Gas Industry	3	AB	10,5
TI2000	Teknik Instrumentasi Instrumentation Engineering	3	AB	10,5
TI2103	Rangkaian Listrik Electrical Circuits	2	AB	7
TI2105	Praktikum Rangkaian Listrik Electrical Circuits Lab Work	1	AB	3,5
<b>Semester II</b>				
AK1008	Pencasila dan Kewarganegaraan Pancasila and Civics	3	AB	10,5
TI2104	Matematika Lanjut Applied Mathematics	2	A	8
TI3110	Teknik Digital Digital Engineering	3	AB	10,5
TI3112	Elektronika Analog Analog Electronics	3	B	9
TI3114	Pengukuran Besaran Listrik Electric Measurement	2	AB	7
TI3116	Praktikum Elka Analog, Digital dan Pengukuran Besaran Listrik Analog and Digital Electronics, Electric Measurement Lab Work	2	B	6
TO2030	Kimia Dasar General Chemistry	3	A	12
<b>Semester III</b>				
TI2202	Pemrograman Komputer Computer Programming	3	B	9
TI2203	Matematika Teknik Engineering Mathematics	4	B	12
TI3200	Praktik Kerja Lapangan 1 Practical Work 1	2	A	8
TI3201	Pemeliharaan Peralatan Instrumentasi Maintenance of Instrumentation Equipment	2	BC	5
TI3203	Praktikum Pemeliharaan Peralatan Instrumentasi Maintenance of Instrumentation Equipment Lab Work	1	A	4
TI3205	Mikro Elektronika Micro Electronics	2	AB	7
TI3207	Praktikum Mikro Elektronika Micro Electronics Lab Work	1	B	3
TI3208	Teknik Pengukuran Industri Migas 1 Measurement in Oil and Gas Industry Engineering 1	2	B	6
TI3211	Praktikum Teknik Pengukuran Industri Migas 1 Measurement in Oil and Gas Industry Engineering Lab Work 1	1	AB	3,5
<b>Semester IV</b>				
AK1040	Kesehatan dan Keselamatan Kerja Health Safety and Environment	3	A	12
TI2102	Gambar Teknik Technical Drawing	2	AB	7
TI2206	Proses Pengolahan Minyak dan Gas Oil and Gas Refinery Process	3	A	12
TI3202	Elektronika Daya Power Electronics	2	AB	7
TI3206	Sistem Mikroprosesor/Mikrokontroler Microcontroller System	2	B	6
TI3208	Praktikum Sistem Mikroprosesor/Mikrokontroler Microcontroller System Lab Work	1	B	3
TI3210	Komunikasi Data Data Communication	3	A	12
TI3212	Dasar-dasar Instrumentasi Pengendalian Proses Process Control Instrumentation Fundamental	3	B	9

Kode / Code	Mata Kuliah / Course	SKS / Credit	Nilai / Score	Mutu / Grade
<b>Semester V</b>				
TI3214	Praktikum Dasar-dasar Instrumentasi Pengendalian Proses Process Control Instrumentation Fundamental Lab Work	1	AB	3,5
TI3102	Sistem Tenaga Listrik Power System	2	AB	7
TI3104	Praktikum Sistem Tenaga Listrik Power System Lab Work	1	AB	3,5
TI3106	Peralatan Proses Industri Migas Oil and Gas Industry Process Equipment	2	A	8
TI3108	Praktikum Peralatan Proses Industri Migas Oil and Gas Industry Process Equipment Lab Work	1	A	4
TI3303	Pic dan Scada Pic and Scada	2	B	6
TI3308	Praktikum Pic dan Scada Pic and Scada Lab Work	1	B	3
TI3307	Sistem Pengendalian Terdistribusi Distributed Control System	3	AB	10,5
TI3308	Praktikum Sistem Pengendalian terdistribusi Distributed Control System Lab Work	1	B	3
TI3311	Statistika dan Probabilitas Statistics and Probability	2	AB	7
TI3313	Sistem Telekomunikasi Telecommunication System	3	B	9
TI3315	Praktikum Sistem Telekomunikasi Telecommunication System Lab Work	1	B	3
TI3317	Aplikasi Instrumentasi Pengendalian Proses Application of Process Control Instrumentation	3	AB	10,5
TI3319	Teknik Permodelan Modeling Engineering	2	A	8
<b>Semester VI</b>				
TI3302	Psikologi Industri Industrial Psychology	2	AB	7
TI3306	Praktik Kerja Lapangan 2 Practical Work 2	10	A	40
TI3301	Kertas Kerja Wajib Work Report	2	A	8
TI3302	Metring System Measuring System	2	B	6
TI3306	Sistem Pengendalian Digital Digital Control System	2	A	8
TI3308	Praktikum Sistem Pengendalian Digital Digital Control System Lab Work	2	AB	7
<b>Semester VII</b>				
LG2400	Manajemen Pengawasan Supervisory Management	2	AB	7
TI3403	Ekonomi Teknik Economics of Engineering	2	AB	7
TI3406	Enterprise Resource Planning Enterprise Resource Planning	2	AB	7
TI3407	Advanced Control System Advanced Control System	2	AB	7
TI3409	Praktikum Advance Control System Advanced Control System Lab Work	1	AB	3,5
TI3411	Instrument process analyzer Instrument Process Analyzer	3	AB	10,5
TI3413	Lightning Protection Lightning Protection	2	A	8
TI3450	Seminar Proposal Seminar of Research Proposal	1	AB	3,5
<b>Semester VIII</b>				
TI3204	Praktikum Elektronika Daya Power Electronics Lab Work	1	B	3
TI3304	Praktikum Metring System Measuring System Lab Work	1	B	3
TI3400	Praktik Kerja Lapangan 3 Practical Work 3	6	A	24
TI3401	Skripsi Thesis	6	AB	21
TI4417	Bahasa Inggris 2 English 2	1	B	3
<b>JUMLAH / Amount</b>		<b>150</b>		<b>527,5</b>

Judul Skripsi / Thesis Title :

RANCANG BANGUN SISTEM PENGENDALIAN LEVEL DAN KADAR PH PADA BEJANA SULFATASI DENGAN KONTROL PID  
WENGGUNAKAN MONITORING BERBASIS BORLAND DELPHI  
DESIGN OF CONTROL SYSTEM FOR THE LEVEL AND PH IN SULPHATATION VESSEL WITH PID CONTROL USING MONITORING  
BASED BORLAND DELPHI



Prof. Dr. R. Herry Gunardi M.Sc.  
NIP. 1962151087011001

Index Prestasi Kumulatif / GPA : 3,52  
Predikat Kelulusan / Predicate : Pujian / Cum laude  
Tanggal Yudisium / Date of Judicium : 30 Juni 2021 / June 30, 2021

Ketua Program Studi / Head of Study Program :

Ir. Roni Heru Triyanto, M.T.  
NIP. 196704261993031001





REPUBLIK INDONESIA

KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL

BADAN PENGEMBANGAN SUMBER DAYA MANUSIA ENERGI DAN SUMBER DAYA MINERAL

PUSAT PENGEMBANGAN SUMBER DAYA MANUSIA MINYAK DAN GAS BUMI

LSP "PPSDM MIGAS"



Komite Akreditasi Nasional  
Lembaga Sertifikasi Profesi  
LSP - 001 - IDN



BADAN NASIONAL SERTIFIKASI PROFESI  
Lembaga Sertifikasi Profesi  
BNSP - LSP - 013 - ID

## SERTIFIKAT KOMPETENSI KERJA KESELAMATAN DAN KESEHATAN KERJA

Menerangkan bahwa :

Nama

: EZA YULIANTO SAPUTRO

NIK

: 1901012506000002

Tempat, Tanggal Lahir

: SUNGAILIAT, 25-06-2000

Perusahaan

: PEM AKAMIGAS

Telah mengikuti dan dinyatakan lulus / kompeten dalam ujian sertifikasi Kompetensi Kerja  
Keselamatan Dan Kesehatan Kerja, tingkat : **OPERATOR KESELAMATAN DAN KESEHATAN  
KERJA**

Yang diadakan di

: Cepu, tanggal 23-07-2021 s.d 24-07-2021

Nomor sertifikat

: **1300061932021**

Masa berlaku

: 24-07-2021 s.d 24-07-2025

Cepu, 24-07-2021

Kepala Pusat Pengembangan Sumber Daya Manusia

Minyak dan Gas Bumi

Selaku Ketua Dewan Pimpinan LSP "PPSDM MIGAS"



IMAGINTO TIMINGGIL NULIANTO



**REPUBLIK INDONESIA**  
**KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL**  
**BADAN PENGEMBANGAN SUMBER DAYA MANUSIA ENERGI DAN SUMBER DAYA MINERAL**  
**PUSAT PENGEMBANGAN SUMBER DAYA MANUSIA MINYAK DAN GAS BUMI**

LSP "PPSDM MIGAS"

## SERTIFIKAT KOMPETENSI KERJA INSTRUMENTASI

Menerangkan bahwa :

Nama

: **EZA YULIANTO SAPUTRO**

NIK

: **1901012506000002**

Tempat, Tanggal Lahir

: **SUNGAILIAT, 25-06-2000**

Perusahaan

: **PEM AKAMIGAS**

Telah mengikuti dan dinyatakan lulus / kompeten dalam ujian sertifikasi Kompetensi Kerja Instrumentasi , tingkat : **TEKNISI INSTRUMENTASI TINGKAT I**

Yang diadakan di

: **Cepu, tanggal 08-07-2021 s.d 09-07-2021**

Nomor sertifikat

: **1300056162021**

Masa berlaku

: **09-07-2021 s.d 09-07-2025**



Cepu, 09-07-2021

Kepala Pusat Pengembangan Sumber Daya Manusia  
Minyak dan Gas Bumi  
Selaku Ketua Dewan Pimpinan LSP "PPSDM MIGAS"



WASKITO TUNGGUL NUSANTO



**BADAN NASIONAL SERTIFIKASI PROFESI**  
**Lembaga Sertifikasi Profesi**  
**BNSP - LSP - 013 - ID**



