



Hardo Triwahyu Septiadi

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SUMMARY

Strategic Solution Architect & Instrumentation Specialist with core expertise in designing end-to-end Instrumentation Analyzer and Sampling Systems. I combine deep engineering domains with a digital-first mindset, leveraging Low-Code ecosystems (Power Platform), modern software architecture (Laravel, Python, Svelte), and AI-enhanced workflows to accelerate solution delivery. Proven track record of securing multi-billion IDR projects by bridging the gap between technical design, commercial strategy, and operational innovation.

TECHNICAL EXPERTISE

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| ● Analyzer System Design
(CEMS, SRU, SWAS, Natural Gas) | ● Technical Writing | ● Ms. PowerPoint (Pitching) |
| ● Sample System Design
(Probe, Transport, Conditioning) | ● Aspen HYSYS / DWSIM | ● Low Code Dev (AppSmith, n8n) |
| ● P&ID, GAD, Schematic
(AutoCAD) | ● IIoT Integration (MQTT, ThingsBoard) | ● Full-stack web dev (Laravel, Python, JS) |
| | ● Ms. Power Platform (PL-100 Cert) | ● Infrastructure (Docker, RDBMS, Linux) |
| | ● Ms. Excel (Pivot, Macro, VBA) | ● Gen AI (Gemini, Claude) |

EDUCATION

UNIVERSITAS BRAWIJAYA, MALANG, EAST JAVA, INDONESIA

Bachelor of Chemical Engineering (GPA 3.92)

Jul 2019

- Selected as best graduate student of Universitas Brawijaya.
- Awarded as the first grantee of Paragon Scholarship in Universitas Brawijaya.
- Discovered efficiency of silica-based hydrophobic membrane in biodiesel purification process.

HONORS AND ACHIEVEMENTS

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|--|----------|
| ● Campus delegation in Malaysia Chem-E-Car Competition | Mar 2018 |
| ● 1 st winner of I-CARE BKKMTKI | Feb 2018 |
| ● Best presentation in Paragon Scholarship Camp Class | Feb 2018 |
| ● Best poster and presentation in PIMNAS XXX | Aug 2017 |

SOCIETIES AND EXTRACURRICULARS

CHEMICAL ENGINEERING STUDENT ASSOCIATION, UB

Chief Executive

May 2018 – May 2019

UNLEASH POTENTIAL OF THE DISABLED, PARAGON INDONESIA

Head of Committee

Feb 2018 – Dec 2018

INDONESIA CHEM-E-CAR COMPETITION, ITS

Expert Team

Dec 2018 – Mar 2019

WORK EXPERIENCE

PT. WEEBZ MANDIRI, BEKASI, INDONESIA

Engineering Coordinator & Power Platform Developer

Apr 2024 – Present

- Lead a multi-disciplinary team to architect end-to-end Analyzer and Sampling Systems, bridging the gap between technical design, commercial strategy, and client needs.
- Co-developed technical proposals and pitching strategies with the Sales team that secured large-scale projects valued at over 10 billion IDR.
- Spearheaded the development of a remote monitoring platform to significantly reduce client analyzer MTBF.
- Engineered and maintained custom Power Platform solutions to automate internal workflows and resolve evolving business requirements.

Microsoft 365 IT and Engineering Consultant

Feb 2022 – Mar 2024

- Microsoft Office 365 Application Consultation (Microsoft Power Platform PL-100 & PL-900 Certified).
- Architected Power Platform ecosystem to automate current business processes, reducing manual entry.
- Integrated Microsoft Graph API with External Applications (e.g. Digital Business Cards).
- Created PowerBI dashboard based on SharePoint collected data (with help from Power Query).
- Established company SharePoint site (replacing old intranet).
- Migrated data source from Ms Excel to SharePoint / Microsoft List.
- Supported Engineering team to address and solve customers' issues, serving as 2nd support specialist.

Application Engineer

Feb 2020 – Feb 2022

- Programmed 5+ spreadsheet applications (with VBA) to calculate and analyse fluid and piping properties.
- Invented a Python Web App to analyse sample gas fluid (dew point, density, viscosity, etc.)
- Developed a comprehensive technical proposal for Natural Gas Custody Analysis, CEMS, SWAS
- Conducted internal company training regarding AMETEK, Genie Filter, Sentry products' application.
- Interacted with principals (AMETEK, Genie Filter, Sentry) to address and solve customers' issues.
- Designed sales pitch deck for AMETEK Process Instruments' products champion.

POU CHEN GROUP INDONESIA, SERANG, INDONESIA

IT Software Supervisor

Feb 2022 – Mar 2024

- Responsible for business and data analytics of our factories' big data with PowerBI.
- Supervised the maintenance and troubleshooting of the MES (Critical Manufacturing™) in the business unit.
- Created custom Python apps and scripts to solve complex business flow issues, enhancing efficiency.
- Designed and deployed flexible internal tools using Low-Code platforms (AppSmith, n8n, NocoDB) to replace manual spreadsheet workflows and improve data visibility.
- Managed the deployment of open-source software and internal applications using Docker in a Linux VM environment, reducing dependency on legacy systems.
- Supported employees to solve any software related issues.

UPWORK INC. & FIVERR INC.

Graphic Designer Freelancer

Aug 2019 – Feb 2022

- Designed 30 projects within the first two-months with 5-star ratings.
- Verified as Top-Rated badge in Upwork and Level-One Seller in Fiverr.
- Worked with customer mostly based on USA and Europe.
- Earned 500\$ within first month of working.

PT. PERTAMINA RU-IV, CILACAP, INDONESIA

Student Internship

Jun 2018 – Jul 2018

- Modelled PERTAMINA RU-IV RFCC Sour Water Stripper (SWS) Unit with Aspen HYSYS.
- Evaluated the effect of reboiler flow rate, reflux flow rate and top column temperature in SWS Unit.
- Founded the best flow rate and temperature configuration for most efficient Sour Water Stripper (SWS) usage.
- Observed PERTAMINA RU-IV Plant.

ADDITIONAL INFORMATION

- **Cultural Experiences:**

- Malang, East Java (± 4 years)
- Serang, Banten (± 2 years)
- Bekasi, West Java (± 3 years)
- Pontianak, West Borneo (± 17 years)

- **Languages:**

- Bahasa Indonesia (Native)
- English (Fluent)
- Bahasa Jawa (Conversational)
- Bahasa Melayu (Conversational)

- **Certifications:**

- [Microsoft Certified: Power Platform App Maker Associate \(PL-100\)](#)
- [Microsoft Certified: Power Platform Fundamental \(PL-900\)](#)
- Process Analyzer Sampling System (PASS) Training (SWAGELOK)
- High Impact Online Presentations (DaleCarnegie)
- Internal Auditor Training for ISO 9001 and ISO 450001 Audit Program
- TOEFL Test with score 560 of 670
- Basic H2S Training OPITO
- H2S Training Level 2 by Rutledge
- Ms. Office Competency Test with Excellent score
- Technical Support Fundamentals (Google – Coursera.org)
- [Machine Learning \(ML\) Process \(Pacmann Academy Indonesia\)](#)
- [Recommender System \(Pacmann Academy Indonesia\)](#)
- [Building Machine Learning \(ML\) Product \(Pacmann Academy Indonesia\)](#)
- [Applied Data Science I: Scientific Computing & Python \(WorldQuant University\)](#)
- [Applied Data Science II: Machine Learning & Statistical Analysis \(WorldQuant University\)](#)