



# Hardo Triwahyu Septiadi

Jl Swadaya V Dalam 2 | North Bekasi, West Java, Indonesia 17124

(+62) 89694008496 | [hardotriwahyu@gmail.com](mailto:hardotriwahyu@gmail.com) | [linkedin.com/in/haranobuhardo](https://linkedin.com/in/haranobuhardo)

## 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

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

- Campus delegation in Malaysia Chem-E-Car Competition Mar 2018
- 1<sup>st</sup> 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 ( $\pm$  4 years)
- Serang, Banten ( $\pm$  2 years)
- Bekasi, West Java ( $\pm$  3 years)
- Pontianak, West Borneo ( $\pm$  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 (DaleCarniege)
- 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 \(WorldQuant University\)](#)