

Edwardo Samosir

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EDUCATION

Bandung Institute of Technology (ITB)

Bachelor of Science in Petroleum Engineering, An ABET certified degree

Bandung, West Java

August 2016 – September 2020

- Grantee of Dato' Low Tuck Kwong-Purnomo Yudiantoro Scholarship
- Graduated with highly satisfactory merit with GPA : 3.30/4.00
- Graduated with bachelor thesis : 'Forecasting Gas Production Rate Using Recurrent Neural Network: A Machine Learning Study.'

PROFESSIONAL EXPERIENCE

Money Market Dealer - Senior Officer

PT Bank Sahabat Sampoerna.

September 2022 – October 2022

Greater Jakarta Area

- Monitoring and projecting daily cash positions and executing money market transactions to ensure the funding mix, funding cost, and investment yield while ensuring risk levels align with the bank's strategies and liquidity.
- Performing interbank money market lending/borrowing transactions dynamically following the bank's asset-liability position.
- Ensuring the mandatory fulfillment of Giro Reserve Requirements and other obligations related to the bank's liquidity.

Foreign Exchange G7 (Major) Currencies Trader - Treasury Dealer

PT Bank Mandiri (Persero) Tbk.

April 2021 – August 2022

Greater Jakarta Area

- Achieved proprietary trading target by 130% by the half year of 2022.
- Maintained USD 10-20 Mio of daily proprietary trading interbank volume on G7 (major) currencies, including TOD/TOM/SPOT transactions, to generate USD 5000-10000 daily profit with a target of USD 1 Mio a year.
- Quoted prices of G7 currencies including TOD/TOM/SPOT transactions for interbank clients.
- Maintained equivalent 50-100 Mio USD of daily corporate and SME client's transactions of G7 currencies, including TOD/TOM/SPOT transactions, to provide clients' need to generate fee-based income.
- Conducted daily G7 currencies market research and summarized the view of the G7 currencies market into reports and trading ideas.

Teaching and Laboratory Assistant

Petroleum Engineering Department - Bandung Institute of Technology

August 2019 – June 2020

Bandung, West Java

- Assigned as a Petrophysics laboratory assistant, Petroleum Engineering Partial Differential Equation teaching assistant, and Drilling Engineering teaching and laboratory assistant.
- Provided practical laboratory sessions at petrophysics laboratory assisting 'Determination of the Absolute Permeability of Core Sample using PERG-200 Gas Permeameter' module.
- Provided practical laboratory sessions at the drilling engineering laboratory, assisted students in Introductory to Drilling Equipments, Water and Oil Based Mud modules.
- Supported the lecturer conducting the class within one semester, assessed students' assignments and quizzes, and provided additional tutorial sessions.
- Assessed students' preliminary assignments, laboratory pre-tests, and post-laboratory module reports.

Production Engineering Intern

PT. Pertamina EP

July 2019 – August 2019

Jambi and South Sumatera

- Optimized the best well candidate selection to apply with the frac-pack method in Mangun Jaya Field.
- Designed and presented an efficient frac-pack geometry model to senior production engineer and reservoir engineer in Jambi Field as stimulation and sand control for a well in unconsolidated sandstone reservoir at Mangun Jaya Field, South Sumatera, as part of Jambi Field of Pertamina EP Asset 1.
- Followed and visited the implementation of engineering design and methods by Halliburton Company as the implementor of job operation in the field.
- Improved well productivity of the selected well by 60% and fixed the sand problem of the treated well.

ORGANIZATIONAL EXPERIENCE

Secretary-General

January 2018 – December 2018

Kelompok Studi Ekonomi dan Pasar Modal ITB (KSEP-ITB)

- Structurally served as the vice president, subordinated with the organization's president.
- Supervised annual work programs of 6 divisions: Secretary and Treasurer, Human Resources, Media and Public Relations, External Affair, Internal Affair, and Education Division.
- Constructed organization frameworks and work timelines and coordinated with the president and head of supervised divisions.

Field Coordinator

September 2018

INFEST 2018, an Investment Festival by KSEP ITB

- Managed to raise IDR 100 million funds from sponsorships to finance two days annual grand seminar held by Stock Market and Economic Study Club (KSEP ITB) and invited 15 competent speakers related to economics, finance, a financial technology startup, and Indonesia's stock market topics.
- Supervised and directed the technical plans to proceed according to the initial time allocations with several adjustments.

Treasurer

August 2018

Energy Symposium 2018 by Society of Petroleum Engineering ITB Student Chapter

- Managed to raise IDR 50 million funds from sponsorships to finance the symposium.
- Coordinated budget planning and evaluation of event's finance with all committee boards to conduct an annual energy symposium and invited competent speakers related to the oil and gas industry to share their knowledge and views on nowadays petroleum industry.

PROJECTS

Bachelor Thesis Project | *Python, PyTorch, Supervised Machine Learning*

May 2020 – August 2020

- Accomplished bachelor thesis with the title 'Forecasting Gas Production Rate Using Recurrent Neural Network: A Machine Learning Study.'
- Implemented a machine learning algorithm and built architecture of various recurrent neural network algorithms with python to adapt to nonlinearity and complexity of reservoir material balance concept to forecast gas production rate using proxy parameter from a single gas well in a network production system.

Capstone Design Project | *Drilling Engineering, Completion and Abandonment*

January 2020 – May 2020

- Designed workovers, infill drilling wells (well trajectory, casing design, and mud design), completions, and abandonment for optimizing the estimated ultimate recovery of oil in Meruap Field, Jambi.

TECHNICAL SKILLS

Treasury and Global Markets: Foreign Exchange, Derivatives, Liquidity and Money Market, Fixed Income and Stock Market, Treasury Trading and Management

Treasury Trading Softwares: Bloomberg Terminal, Refinitiv FX Trading, JP Morgan Direct and Bank Indonesia Electronic Trading Platform (BI - ETP)

Petroleum Engineering Softwares: Petroleum Expert-IPM Suite of tools (PROSPER, MBAL, GAP, PVTp), Schlumberger Software (Petrel RE, Eclipse-Simulator, OFM, PIPESIM and OLGA), Halliburton-Landmark, CMG, Interactive Petrophysics, Kappa-Saphir and Fekete Software (PTA and RTA)

Programming Skills: Python, C++, VBA (Macro Excel), Fortran, Machine Learning (Supervised), Query (MySQL)

Programming Libraries: Matplotlib, NumPy, Pandas, Scipy, Seaborn Scikit-learn, PyTorch

Other Softwares: Ms Word, Ms Excel, Ms Power Point, Ms Project, Ms Access, IBM-SPSS, EViews

Languages: English, Indonesian, Bataknese

CERTIFICATIONS, WORKSHOPS AND COURSES

- Treasury Dealer Basic Level Certificate by Banking Professional Certification Body - January 2022
- SQL - My SQL for Data Analytics and Business Intelligence, The Complete Investment Banking Course, Build a DCF Model From Scratch, Introduction to Financial Modeling by Udemy - May-Nov 2020
- Private Equity and Venture Capital by Coursera - Jan 2021
- Python 3 Tutorial Course by SoloLearn - May 2020
- Machine Learning for Business Professionals by Coursera - April 2020
- Intermediate SQL Queries by Datacamp - August 2022
- SQL Data Reporting and Analysis by LinkedIn - August 2022
- Python Essential Training and Python for Data Visualization by LinkedIn - August 2022
- Creating API Documentation, Introducing Postman and Postman Essential Training by LinkedIn - August 2022

REFERENCES

- Areiyando Makmun, S.T. - ex-Schlumberger ING Stimulation Business Development Manager (+62811 8014 689)
- Muhammad Feldy Riza, S.T., M.Sc. - Reservoir Engineer at BP as Thesis Adviser (+62821 1622 2580)