Mochamad Rifqi Nur Azhari, S.T.

Indonesia, +62-821-2200-2286, mochamad.rifqi@ui.ac.id, rifqiazhari.github.io

EDUCATION

Sep 2017 — Jul 2021

Mechanical Engineering, Universitas Indonesia

Depok

Finished 156/144 credits in 4 years

Publication: Clean Energy: Experimental study on the optimum design of diffuser-augmented horizontal-axis tidal turbine by Oxford University Press

Achievements: **(1)** 5th of International Flying Car Design Contest, TEKNOFEST 2021 in Turkey; **(2)** Finalist of Kontes Robot Terbang Indonesia 2020; **(3)** Finalist of TÜBİTAK International UAV Competition, TEKNOFEST 2020 in Turkey; **(4)** Finalist of Kontes Robot Terbang Indonesia 2019

Jan 2022 — Dec 2023

Professional Certificate in Data Science & Deep Learning Specialization, (IBM, Stanford University & Harvard University)

Coursera

Achievements: **(1)** Top 7% in Kaggle's Spaceship Titanic Competition, **(2)** Top 13% in Kaggle's House Price Competition, **(3)** Top 20% in Kaggle's Digit Recognizer Competition

SKILLS

Cross-functional Leadership

Productions & Operations Optimization

Diagnostic & Predictive Analytics

Regression, Classification, Forecasting

Machine Learning & Deep Learning Modelling

Python, R, SQL, Tableau (2y)

PART-TIME AND INTERNSHIP EXPERIENCES

Jan 2022 — Dec 2023

Career Break, Professional Development

Programs: **(1)** HarvardX's Data Science **(2)** IBM: Data Science, **(3)** IBM: Data Analytics, **(4)** IBMl: Data Engineering, **(5)** DeepLearingAI: Deep Learning Specialization, **(6)** Stanford's Machine Learning Specialization

Jul 2020 — Aug 2021

Research Assistant of Renewable Energy, Departemen Teknik Mesin, Fakultas Teknik Universitas Indonesia

Depok

- Planned, designed, manufactured, and assembled an experimental research site for long-term (3+ years)
- Managed custom orders to other manufacturers and their distribution
- Managed the data collection process and produced a research paper with other researchers

Dec 2020 — Oct 2021

Project Manager, UI Flying Car Research Team

Depok

- Led, and brought the team to be the world number 14th in international competition in its first season
- Applied close recruitment process to competent and highly specialized people from related labs
- Increased productivity by focusing on thought processes and assigned tools, repetitive tasks to third parties

Sep 2020 — Jan 2021

Teaching Assistant (TA) of Control System, Fakultas Teknik Universitas Indonesia

Depok

- Created students' big project and corrected student assignments

Jul 2020 — Dec 2020

Vibration Analyst of Rotating Machinery (Internship), Pertamina Hulu Energi ONWJ

Jakarta Selatan

- Study rotating equipment maintenance procedures and processes
- Applied descriptive and diagnostic analysis to study the historical data

Dec 2019 — Dec 2020

Project Manager of AUAV I, Tim Robotika Universitas Indonesia (TRUI)

Depok

- Reduced manufacturing time by 90% and costs by 92% by changing material from composite to polyfoam
- Counted and tackled most of the possible problems that usually occurred in similar engineering project
- Managed procurement of parts and raw materials from multiple sources including imports

Feb 2020 — Sep 2020

Sr. Process/Manufacturing Engineer of AUAV IV, Tim Robotika Universitas Indonesia (TRUI)

Depok

- Reduced manufacturing time by 70% by changing material from composite to plywood
- Reduced manufacturing costs by 80% with highly detailed CAD designs so products can be partially repaired
- Created more consistent products by converting 50% of the manufacturing process to computing and making continuous improvements in each batch (build 10 batches)
- Engineering processes: heat gun laminating, laser cutting, CAD/CAM, and plywood assembling

Feb 2020 — Jul 2020

Teaching Assistant (TA) of Calculus, Fakultas Teknik Universitas Indonesia

Depok

- Corrected student assignments

Dec 2018 — Dec 2019

Jr. Process/Manufacturing Engineer of AUAV II, Tim Robotika Universitas Indonesia (TRUI)

Depok

- Increased reliability of the products by improving the product's qualities like weight reduction, increasing structural strength and by inventing better methods of the manufacturing process
- Managed procurement distribution of raw materials and managed custom orders to other manufacturers
- Engineering processes: composite molding, resin laminating, hot wire cutting, and foam polishing