

Mochamad Rifqi Nur Azhari, S.T.

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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) Finalist of International Flying Car Design Contest, TEKNOFEST 2021 in Turkey; (2) Finalist of Kontes Robot (Robotics) Terbang Indonesia 2020 by Kemendikbud; (3) Finalist of TÜBİTAK International UAV Competition, TEKNOFEST 2020 in Turkey; (4) Finalist of Kontes Robot (Robotics) Terbang Indonesia 2019 by Kemenristek
Jan 2022 — Dec 2023	Professional Certificate in Data Science, & Deep Learning Specialization, (IBM, DeepLearning.AI, & 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 Team Leadership (2x Project Manager in Robotics Research)	Interpersonal, Communication, Teaching, Mentoring (2x Teaching Assistant)
Computer Aided Design (CAD): Autodesk Inventor, Fusion 360	Machine Learning & Deep Learning (including Computer Vision)
Production Optimization	Analytical Thinking & Data Analysis
Python, R, SQL, Tableau (2y exp)	

PART-TIME AND INTERNSHIP EXPERIENCES

Jan 2022 — Dec 2023	Career Break, Self-Development <ul style="list-style-type: none">Finished Programs: (1) HarvardX's Data Science (2) IBM: Data Science, (3) DeepLearningAI: Deep Learning SpecializationUnfinished Programs: (1) HarvardX's CS50 (2) MIT Circuits and Electronics
Jul 2020 — Aug 2021	Research Assistant of Renewable Energy, Departemen Teknik Mesin, Fakultas Teknik Universitas Indonesia Depok <ul style="list-style-type: none">Planned, designed, manufactured, and assembled an experimental research site for long-term (3+ years)Managed custom orders to other manufacturers and their distributionManaged the data collection process and produced a research paper with other researchers
Dec 2020 — Oct 2021	Project Manager, UI Flying Car (Robotics) Research Team Depok <ul style="list-style-type: none">Led, and brought the team to be the world number 14th in international competition in its first seasonApplied close recruitment process to competent and highly specialized people from related labsIncreased 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 <ul style="list-style-type: none">Created students' big project and corrected student assignments
Jul 2020 — Dec 2020	Vibration Analyst of Rotating Machinery (Internship), Pertamina Hulu Energi ONWJ Jakarta Selatan <ul style="list-style-type: none">Study rotating equipment maintenance procedures and processesApplied descriptive and diagnostic analysis to study the historical data

Dec 2019 — Dec 2020

Project Manager of AUAV I, Tim Robotika (Robotics) 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 (Robotics) 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 (Robotics) 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