RIYAN FIRMANSYAH

rfrmnsyh10@gmail.com | +6285133382391 | LinkedIn
Cimanggis, Depok, West Java, Indonesia

I am a graduate in Mechanical Engineering from Universitas Gunadarma, with a focus on Energy Systems, CFD, Aerodynamics, and Energy Conversion Technology. As a fresh graduate, I am highly enthusiastic about continuous learning and developing new skills. I am quick to adapt, possess strong analytical abilities, effective communication skills, and the ability to work efficiently in teams. I am proficient in utilizing SolidWorks, AutoCAD, ANSYS Mechanical, ANSYS Fluent, Microsoft Office, Vectric Aspire, and Cura. Additionally, I am skilled in visual design using Adobe Illustrator, Photoshop, and Filmora. Currently, I am focused on deepening my knowledge of renewable energy and the practical applications of computational fluid dynamics (CFD) in energy systems and aerodynamic design.

EDUCATION

Gunadarma University   **Depok, Jakarta**
Bachelor of Mechanical Engineering   September 2020 – February 2024
- **GPA**   : 3.83 (out of 4.00)
- **Undergraduate Thesis** : Enhancement of Aerodynamic Performance in VAWT with Variations in Gap and Flap Deflection Under Low Wind Speed Conditions Using Computational Fluid Dynamics (Supervised by Dr.-Ing. Ir. Mohamad Yamin)

Gunadarma University   **Depok, Jakarta**
Master of Mechanical Engineering   March 2024 – August 2025
- **GPA**   : 3.79 (out of 4.00)
- **Postgraduate Thesis**   : Numerical Simulation of Drag Reduction on Ahmed Body By Passive Control Cylinder and Cylinder-based Synthetic Jet Actuator (Supervised by Dr.-Ing. Ir. Mohamad Yamin)

WORK & INTERNSHIP EXPERIENCES

Center for Automotive and Energy Research Laboratory   **Depok, Jakarta**
Assistant Laboratory   February 2023 – Now
- Conducted research and development on electric vehicles and renewable energy technologies.
- Analyzed aerodynamics and energy efficiency using ANSYS, MATLAB, and SolidWorks.
- Organized practical sessions and technical training related to electric vehicle systems and clean energy.
- Maintained laboratory equipment and ensured compliance with operational safety standards.
- Contributed to student projects and faculty research, resulting in scientific publications.

3D Printing and Rapid Prototyping Laboratory   **Depok, Jakarta**
Assistant Laboratory   April 2023 – Now
- Conducted research and development on composite materials and 3D printing technologies.
- Guided students in designing and printing product prototypes.
- Organized practical sessions and workshops on additive manufacturing and rapid prototyping.
- Maintained laboratory equipment and ensured compliance with safety standards.

Journal of Applied Science and Advanced Engineering (JASAE)   **Depok, Jakarta**
Administration Team Staff   June 2023 – Now
- Managed correspondence between authors, editors, and reviewers.
- Processed manuscript submissions and ensured administrative completeness.
- Assisted in scheduling publication timelines and archiving journal documents.
- Ensured proper formatting and metadata compliance of submitted articles.

Teaching Assistant – Aerodynamics and 3D Printing   **Depok, Jakarta**
Mechanical Engineering Department, Gunadarma University   October *2024 – Now*
- Assisted in practical sessions and lectures on aerodynamics principles and 3D printing technologies.
- Guided students in computational simulations and prototyping processes using 3D printers.
- Supported lab maintenance, ensured safety compliance, and contributed to curriculum delivery.

BANGKIT ACADEMY 2024 (BATCH 2)   **Online (6 Months)**
Student Internship   July– December 2024
- Participated in the Merdeka Belajar Kampus Merdeka (MBKM) program initiated by Google, GoTo, and Traveloka.
- Completed 6-month intensive training focused on Machine Learning and digital career readiness.

COURSES AND TRAINING

Workshop CNC Machine & 3D Printing – Assistant Instructor **Offline (2 day)**
Industry Engineering Faculty, Gunadarma University June 20-21, 2023
- Assisted in delivering hands-on training on CNC machining and 3D printing technologies.
- Guided participants in operating CNC machines and 3D printers for prototyping.
- Supported setup, troubleshooting, and safety supervision during workshop sessions.

Ansys Training – Assistant Instructor **Offline (1 day)**
Engineering Faculty, Gunadarma University October 2023
- Provided basic familiarity with ANSYS interface and simulation workflow.
- Taught fluid flow modeling and simulation using ANSYS Fluent.
- Guided meshing, boundary condition setup, and solver configuration.
- Explained result interpretation, including velocity, pressure, and streamline flow.
- Trained participants in post-processing and simulation validation.

Industrial Design and Patent Training **Offline (3 Day)**
DJKI in collaboration with Gunadarma University February 1-3, 2023
- Understand the basic concepts and importance of intellectual property rights (IPR), especially industrial design and patents.
- Learn the procedures and requirements for official registration of industrial designs and patents.
- Gain knowledge of the legal aspects governing copyrights, patents, and industrial designs to protect creations from infringement.
- Acquire insights into intellectual property management to support product development and innovation in industry.

AutoCAD Training **Online (3 day)**
Technical Drawing Laboratory, Gunadarma University 2021
- Mastered basic 2D drafting and 3D modeling skills.
- Able to create accurate and detailed technical drawings.
- Applied basic design visualization for engineering projects.

Solidworks Training **Offline (3 day)**
Technical Drawing Laboratory, Gunadarma University 2022
- Learned basic 3D modeling and component assembly.
- Gained introductory experience in FEA and CFD simulations.
- Used basic simulation tools to support design validation.

Training of Trainer (ToT) ANSYS 2023 R1 **Offline (2 day)**
Gunadarma University & PT. ACA Pacific March 8-9, 2023
- Participated in intensive training covering CAD modeling (SpaceClaim & Discovery), FEA simulation (ANSYS Mechanical), and CFD analysis (ANSYS Fluent).
- Gained skills in licensing management, troubleshooting, and advanced simulation features to support research and academic activities.

CFD Simulation Through a Centrifugal Pump **Online (1 Hour)**
[Coursera Project Network](#) October 2022
- Gained hands-on experience in conducting Computational Fluid Dynamics (CFD) simulations focused on centrifugal pump performance analysis.
- Learned flow modeling, meshing techniques, boundary conditions setup, and interpreting simulation results.

Crash Course in CFD & NACA 0012 Airfoil Simulation **Online (1.5 Hour)**
by Udemy - free June 2024
- Learned fundamental CFD theory and conducted 2D aerodynamic simulation of the NACA 0012 airfoil using ANSYS Fluent.
- Performed modeling, meshing, simulation, and validation against NASA experimental data.
- Gained proficiency in ANSYS DesignModeler, Mesher, Fluent, and post-processing tools.

ANSYS Thermal Analysis Course of Solar PV Module **Online (1.5 Hour)**
by Udemy - free June 2024
- Learn how to design 3D models of solar photovoltaic panels using ANSYS
- Define material properties accurately for thermal simulation
- Create proper connections between panel components for realistic modeling
- Generate structural mesh suitable for thermal analysis
- Identify and apply appropriate boundary conditions for the PV system
- Simulate thermal behavior of the PV module and report simulation results effectively

From Resumes to Reports: Essential Word Skills for Every Professional **Online (4 Hour)**
[by Udemy](#) April – May, 2025
- Mastered advanced Microsoft Word skills, including professional formatting, styles, and layouts.
- Created impactful resumes, business documents, and marketing materials.
- Utilized collaboration tools (Track Changes, Comments, Co-authoring) and advanced features (mail merge, macros, document protection).
- Integrated Word with Excel, PowerPoint, and cloud services (OneDrive, SharePoint) for efficient workflow.
- Managed complex documents using advanced referencing, pagination, and indexing tools.

Learn Microsoft Excel : From Zero to Hero **Online (1 Hour)**
[by Udemy](#) April – May, 2025
- Mastered essential Excel functions: sorting, filtering, data validation, and importing data.
- Gained proficiency in PivotTables, slicers, and advanced charting (bar, scatter, histogram).
- Applied powerful lookup functions: VLOOKUP, HLOOKUP, INDEX, and MATCH.
- Enhanced data presentation using conditional formatting and Excel tables.

Advanced PowerPoint Masterclass for Professionals **Online(4 Hours)**
[by Udemy](#) April – May, 2025
- Mastered professional presentation design using themes, layouts, and visual elements.
- Applied storytelling, pacing, and public speaking strategies for impactful delivery.
- Utilized animations, transitions, and multimedia integration for dynamic slides.
- Developed engaging data visualizations and practiced through hands-on projects.

Google Colab Tutorial 2025: From Beginner Basics to Advanced **Online (35 Minutes)**
[by Udemy](#) May 2025
- Mastered cloud-based Python coding using Google Colab, including data analysis with Pandas and NumPy.
- Utilized advanced features like GitHub integration, runtime settings, and real-time collaboration.

Discrete Phase Model (DPM) Training Course, CFD Simulation **Online (4 Hours)**
[by Udemy](#) February – May, 2025
- Gained hands-on experience simulating particle-laden flows using Discrete Phase Model (DPM) in ANSYS Fluent.
- Applied DPM to real-world cases such as spray systems, combustion chambers, and cyclone separators.
- Analyzed particle-fluid interactions and optimized simulation parameters for accuracy and efficiency.
- Developed structured and hybrid mesh using ANSYS Meshing tools: inflation, sizing, face meshing, C-grid, O-grid.
- Interpreted simulation results and validated against benchmark or experimental data.

Building HVAC Training Course, CFD Simulation for All Levels **Online (4.5 Hours)**
[by Udemy](#) February – May, 2025
- Gained hands-on experience simulating particle-laden flows using Discrete Phase Model (DPM) in ANSYS Fluent.
- Applied DPM to real-world cases such as spray systems, combustion chambers, and cyclone separators.
- Analyzed particle-fluid interactions and optimized simulation parameters for accuracy and efficiency.
- Developed structured and hybrid mesh using ANSYS Meshing tools: inflation, sizing, face meshing, C-grid, O-grid.
- Interpreted simulation results and validated against benchmark or experimental data.

Solidworks Fluid Dynamics Analysis CFD **Online (3.5 Hours)**
[by Udemy](#) April – May, 2025
- Gained expert-level proficiency in SolidWorks Flow Simulation for solving industrial fluid flow challenges.
- Applied parametric and optimization analysis using CFD for various engineering scenarios.
- Implemented boundary conditions and refined simulation setup for accurate results.
- Conducted performance optimization and design validation using fluid dynamics principles.

Mastering SOLIDWORKS (2024-25): A Complete Course **Online (8 Hours)**
[by Udemy](#) March – May, 2025
- Proficient in core modules: Sketching, Part Modeling, Surfacing, Weldments, Assembly, and Drafting.
- Created 2D profiles with constraints and dimensions; developed 3D parts using advanced features.
- Built and analyzed mechanical assemblies using mates, motion simulation, and interference checks.
- Generated detailed 2D engineering drawings with annotations and tolerances from 3D models.

Learning SOLIDWORKS : For Students, Engineers, and Designers **Online (9.5 Hours)**
[by Udemy](#) March – May, 2025
- Gained proficiency in core SolidWorks environments: Sketch, Part, Assembly, and Surface.
- Developed foundational skills to create, modify, and assemble 3D models.
- Built understanding of basic design tools and workflows in SolidWorks.
-

Adobe Illustrator Course for Graphics Design   **Online (4.5 Hours)**
by Udemy   March – May, 2025
- Proficient in workspace setup and managing the Illustrator document interface.
- Skilled in using Selection, Direct Selection, Group Selection, and Lasso Tools for precise object control.
- Experienced with Magic Wand and Anchor Point tools for advanced path and vector editing.

ISO 45001 OH&SMS - Fast Track to Health & Safety Awareness   **Online (38 minutes)**
by Udemy   May 2025
- Understand the purpose, scope, and benefits of ISO 45001.
- Learn how to establish workplace safety policies and set measurable objectives.
- Identify hazards and assess occupational health & safety risks.
- Explore the certification process, including documentation and internal audit requirements.

ISO 14001:2015 - An Introduction to Environmental Management   **Online (35 minutes)**
by Udemy   May 2025
- Gained foundational knowledge of ISO 14001, including its history and evolution.
- Understood key concepts and principles of environmental management systems (EMS).
- Familiar with the structure, scope, and framework of the ISO 14001 standard.
- Learned the applicability and implementation considerations for ISO 14001 across various industries.

ISO 9001:2015 Foundation by Example   **Online (3.5 Hours)**
by Udemy   June 2025
- Understand the key requirements of ISO 9001:2015 with real-world examples
- Learn the major updates introduced in the 2015 revision
- Identify the essential steps for implementing ISO 9001 in an organization

Solar Cell Technology   **Online (1.5 Hours)**
by Udemy   June 2025
- Gain in-depth understanding of the principles and technologies behind solar cells
- Develop practical skills for designing, installing, and maintaining solar energy systems
- Learn how solar energy can reduce carbon footprints and support sustainability
- Enhance qualifications for a career in the renewable energy sector
- Understand the economic benefits and cost-saving potential of solar power for homes and businesses

ORGANIZATION EXPERIENCES

Head of the Center for Automotive and Energy Research Laboratory
Gunadarma University | January 2024 – May 2025
- Supervised cross-functional research in automotive and renewable energy systems.
- Managed lab operations and coordinated collaboration with industry and academia.

Thesis & Final Project Assistant Supervisor – Aerodynamics & CFD
Center for Automotive and Energy Research Laboratory | March 2024 – May 2025
- Supervised undergraduate and graduate students in research projects focused on aerodynamics and Computational Fluid Dynamics (CFD) simulation.
- Specializing in modeling, simulation, and performance optimization of various systems using ANSYS Fluent.
- Supervised project topics included:
  - VAWT & HAWT – design optimization of vertical and horizontal axis wind turbines.
  - Propeller & PBCF – performance analysis of B-series ship propellers with Propeller Boss Cap Fins modification.
  - Ship LS-DYNA Simulation – collision simulations and structural response analysis using LS-DYNA.
  - Floating Pontoon – hydrodynamic analysis of floating house pontoons under wave loads.
  - Vehicle Body – drag reduction and stability improvement of ground vehicles.
  - Aircraft Wing – optimization of lift-to-drag ratio using NACA airfoils integrated with synthetic jet actuators.
- Guided literature reviews, meshing strategy, solver setup, and post-processing of CFD results.

Assistant Coordinator – Islamic Preaching Division
Taman Puspa Mosque | 2023 – Present
- Designed posters and banners for mosque events and religious activities.

Project Leader – Industrial Design & Patent Development
Gunadarma University | February 2023 – February 2025
- Led the design and patent development of innovative mechanical products.
- Coordinated a multidisciplinary team for project execution and documentation.

Research Assistant – Magister Research Grant (Centrifugal Pump)
Gunadarma University & PT. Duraquipt Cemerlang | January – December 2024
- Conducted research on pump performance optimization using simulation and experimental methods.

Workshop Committee – Smart Classroom Digitalization
Gunadarma University | 2024
- Organized a university-level workshop to promote digital transformation in education.

Training of Trainer (ToT) Committee – ANSYS 2023 R1
Gunadarma University | 2023
- Organized advanced simulation training for students and educators.

Research Assistant – Matching Fund Grant: Tarball Collector Device
Gunadarma University & PT. Duraquipt Cemerlang | June – December 2023
- Contributed to marine environmental research through oil spill tool design and testing.

Mechanical Engineering Community Service – Cisadon, Bogor
HMM Gunadarma Univeristy | 2022
- Designed solar panels and conducted environmental education for rural communities.

Staff – Science and Technology Division (IPTEK)
HMM Gunadarma Univeristy | 2022 – 2023
- Supported academic events and promoted scientific activities within the student body.

Community Service Grant – Kampus Merdeka: Cianjur Earthquake Response
Gunadarma University | 2022
- Designed and built biomass stove prototypes for disaster-affected communities.

Guest Lecture Committee – "Pump Manufacturing for Oil & Gas Industry"
Gunadarma Univeristy & PT. Duraquipt Cemerlang | 2022
- Facilitated coordination and event logistics.

Webinar Committee – Non-Destructive Testing (NDT)
HMM Gunadarma Univeristy | 2022
- Managed webinar operations, including speaker liaison and participant engagement.

AutoCAD Course Committee – Technical Drawing and Design
HMM Gunadarma Univeristy | 2022
- Oversaw course coordination and training delivery for students.

ACHIEVEMENT

Best Academic Student   **December 2021**
Mechanical Engineering Department, Gunadarma University
- Awarded as the Best Academic Student in the 2nd semester of the 2020/2021 academic year, recognized for achieving the highest academic performance and active contributions in educational and organizational activities.

Presenter – 21st National Mechanical Engineering Seminar (SNTTM XXI)   **October 2023**
Universitas Pasundan & BKS-TM Indonesia
- Presented a scientific paper at the 21st Annual National Mechanical Engineering Seminar (SNTTM XXI), hosted by the Mechanical Engineering Department, Universitas Pasundan, in collaboration with the Indonesian Mechanical Engineering Cooperation Board (BKS-TM). Paper Title: *"Performance Enhancement of an H-Type Darrieus Vertical Axis Wind Turbine equipped with NACA Profile Flap"*.

Bangkit Graduate 2023 – Machine Learning Specialization   **January 19, 2024**
Issued by Google & Bangkit Consortium
- Completed the Bangkit program, a Google-led academy with a focus on Machine Learning specialization.

PUBLICATIONS
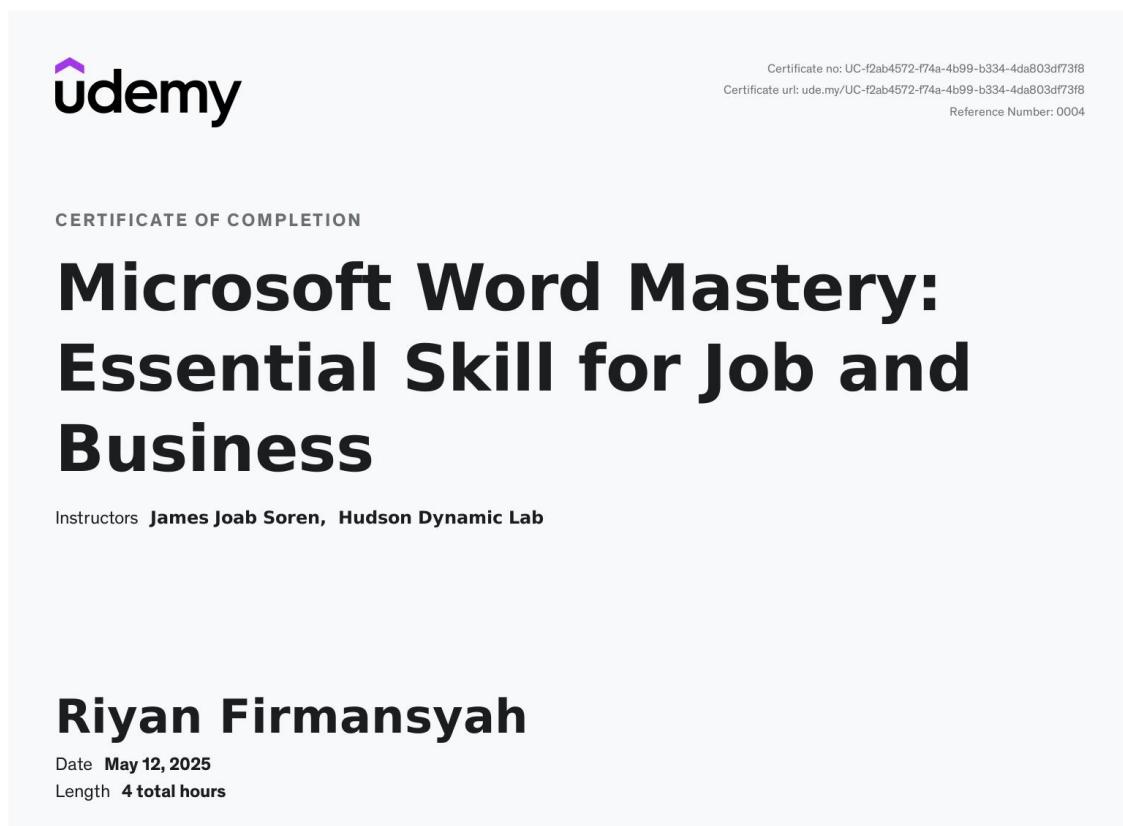
Published :
- M. Yamin, H. A. Nashirudin, and R. Firmansyah, "Fenomena Kontrol Aliran Secara Pasif Pada Konfigurasi Ahmed Body Menggunakan Segitiga Kendali," AME Apl. Mek. Dan Energi J. Ilm. Tek. Mesin, vol. 10, no. 2, Art. no. 2, Sep. 2024, doi: 10.32832/ame.v10i2.763.
- M. Yamin, K. I. Apriyadi, and R. Firmansyah, "Numerical simulation of the effect of synthetic jet actuators on aerodynamic performance in high-lift device configurations," J. Polimesin, vol. 23, no. 2, Art. no. 2, Apr. 2025, doi: 10.30811/jpl.v23i2.6208.

- M. Yamin, M. M. Mumtaz, and R. Firmansyah, "Handling and Stability Analysis of an Autonomous Vehicle Using Model Predictive Control in a CarSim–Simulink Co-Simulation Environment," Int. J. Innov. Mech. Eng. Adv. Mater., vol. 7, no. 2, pp. 98–107, Apr. 2025, doi: 10.22441/ijimeam.v7i2.31812.
- M. Yamin, C. P. Mahandari, and R. Firmansyah, "Performance enhancement of an H-Type Darrieus vertical axis wind turbine equipped with NACA profile flap," May 2024, doi: 10.5281/zenodo.12609227.
- M. Yamin, A. Putra, and R. Firmansyah, "2D CFD Simulation on the Aerodynamic Performance Enhancement of H-Darrieus VAWT Utilized with Flaps," Eng. Sci. Lett., vol. 3, no. 03, Art. no. 03, Jun. 2024, doi: 10.56741/esl.v3i03.564.

Industrial Design Patent:

- Permana, S., Firnanda, A. D., Rahmat, B. A., Bahtiar, E. N., Putranto, M. N., Firmansyah, R., Apriansa, F., Susanto, I., & Rodiah. (2025). *Kipas Portabel*. Desain Industri No. IDD000077477, IN, 20 Februari 2025.
- Yamin, M., Mahandari, C. P., & Firmansyah, R. (2025). *Simulasi Dinamik Kendaraan dengan Software MSC Adams/Car*. Paten No. 000848630, Aplikasi No. DJKI - EC00202509267, IN, 20 Januari 2025. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Permana, S., Supriyono, Muchlis, A., Suryady, S., Firmansyah, R., Abdullah, A. A., & Ismoyo, R. (2024). *Alat Pemetik Buah Semi Otomatis untuk Pohon Tinggi*. Patent No. IDD000072442, IN, 4 November 2024. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Giyats, A. F., Yamin, M., & Firmansyah, R. (2024). *Kendaraan Agrikultur Proteksi Tanaman*. Patent No. IDD000068457, Aplikasi No. 33/DI/2023, IN, 24 Juli 2024. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Yamin, M., Permana, S., Sunyoto, & Firmansyah, R. (2024). *Turbin Savonius Panel Surya Portabel*. Patent No. IDD000069380, IN, 18 Maret 2024. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Mulyanto, T., Sunyoto, Firmansyah, R., Maulana, M. R., Rahman, R. A., & Pratama, Y. (2023). *Mesin Es Putar Otomatis*. Patent No. IDD000068385, IN, 28 Desember 2023. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Irawan, R., Mulyanto, T., Firmansyah, R., Abdullah, A. A., & Maulana, L. R. (2023). *Helm Pengendara Sepeda Motor yang Nyaman dan Produsen Energi*. Patent No. IDD000068011, IN, 13 Desember 2023. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Permana, S., Mulyanto, T., Supriyono, Susanto, I., Maulana, M. R., & Firmansyah, R. (2023). *Alat Pencegah Kucing BAB di Pot*. Patent No. IDD000068005, IN, 13 Desember 2023. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Permana, S., Mulyanto, T., Supriyono, Susanto, I., Maulana, M. R., & Firmansyah, R. (2023). *Payung Pelindung Penumpang Saat Keluar Mobil*. Patent No. IDD000067587, IN, 2 November 2023. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).
- Mulyanto, T., Firmansyah, R., & Supiani. (2022). *Inovasi Perangkat Masak: Kompor Biomassa*. Paten No. 000429342, IN, 27 Desember 2022. Diterbitkan oleh: Direktorat Jenderal Kekayaan Intelektual (DJKI).

PROJECT
CERTIFICATE

Oct 22, 2022

Riyan Firmansyah

has successfully completed

CFD Simulation Through a Centrifugal Pump

an online non-credit project authorized by Coursera Project Network and offered through Coursera

EDUCATION FOR EVERYONE
coursera
PROJECT CERTIFICATE

JMURAD

Jousef Murad
Coursera Instructor
Mechanical Engineer

Verify at:
https://coursera.org/verify/6KRABTCLK2RC
Coursera has confirmed the identity of this individual and
their participation in the project.

üdemy

CERTIFICATE OF COMPLETION

Microsoft Word Mastery: Essential Skill for Job and Business

Instructors **James Joab Soren, Hudson Dynamic Lab**

Riyan Firmansyah

Date **May 12, 2025**

Length **4 total hours**

CERTIFICATE OF COMPLETION

Learn Microsoft Excel : From Zero to Hero

Instructors **Ashish Pandit**

Riyan Firmansyah

Date **May 17, 2025**

Length **1 total hour**

CERTIFICATE OF COMPLETION

Advanced PowerPoint Masterclass for Professionals

Instructors **Learnify IT**

Riyan Firmansyah

Date **May 12, 2025**

Length **4 total hours**

CERTIFICATE OF COMPLETION

Google Colab Tutorial 2025: From Beginner Basics to Advance

Instructors **Code With Ebrima**

Riyan Firmansyah

Date **May 13, 2025**

Length **35 total mins**

CERTIFICATE OF COMPLETION

Discrete Phase Model (DPM) Training Course, CFD Simulation

Instructors **MR CFD**

Riyan Firmansyah

Date **May 16, 2025**

Length **4 total hours**

CERTIFICATE OF COMPLETION

Building HVAC Training Course, CFD Simulation for All Levels

Instructors **MR CFD**

Riyan Firmansyah

Date **May 17, 2025**

Length **4.5 total hours**

CERTIFICATE OF COMPLETION

Solidworks Fluid Dynamics Analysis CFD

Instructors **Omar Koryakin**

Riyan Firmansyah

Date **May 31, 2025**

Length **3.5 total hours**

udemy

CERTIFICATE OF COMPLETION

Mastering SOLIDWORKS (2024-25): A Complete Course

Instructors **CADCIM Technologies**

Riyan Firmansyah

Date **May 28, 2025**

Length **8 total hours**

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udemy

CERTIFICATE OF COMPLETION

Learning SOLIDWORKS : For Students, Engineers, and Designers

Instructors **CADCIM Technologies**

Riyan Firmansyah

Date **May 20, 2025**

Length **9.5 total hours**

udemy

CERTIFICATE OF COMPLETION

Adobe Illustrator Course for Graphics Design

Instructors **Marcus Menti, Zechariah Tech**

Riyan Firmansyah

Date **May 20, 2025**

Length **4.5 total hours**

udemy

CERTIFICATE OF COMPLETION

ISO 45001 OH&SMS - Fast Track to Health & Safety Awareness

Instructors **S.M. WAQAS IMAM, Exoexcellence Training Resources**

Riyan Firmansyah

Date **May 21, 2025**

Length **38 total mins**

udemy

CERTIFICATE OF COMPLETION

ISO 14001:2015 - An Introduction to Environmental Management

Instructors **S.M. WAQAS IMAM, Exoexcellence Training Resources**

Riyan Firmansyah

Date **May 21, 2025**

Length **35 total mins**

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udemy

CERTIFICATE OF COMPLETION

Solar Cell Technology

Instructors **Makeintern Course, Learntoupgrade Online**

Riyan Firmansyah

Date **June 10, 2025**
Length **1.5 total hours**

CERTIFICATE
OF ACHIEVEMENT

UNIVERSITAS GUNADARMA

PRESENTED TO

Riyan Firmansyah

21420116

as student with best academic achievement
Gunadarma University on 2nd Semester 2020/2021

Jakarta, 05 Desember 2021
Rector

Prof. Dr. E. S. Margianti., SE., MM

SERTIFIKAT PENGHARGAAN

Nomor: 4/BKSTM-UNPAS/SNTTM/Presenter/X/2023

Diberikan kepada

Riyan Firmansyah

Sebagai

PRESENTER

Dengan judul artikel

Performance Enhancement of an H-Type Darrieus Vertical Axis Wind Turbine equipped with NACA Profile Flap

Dalam kegiatan Seminar Nasional Tahunan Teknik Mesin ke-21 tahun 2023 yang diselenggarakan pada hari Kamis, 5 Oktober 2023 oleh Program Studi Teknik Mesin Fakultas Teknik Universitas Pasundan bekerja sama dengan Badan Kerja Sama Teknik Mesin (BKS-TM) Indonesia.

Bandung, 5 Oktober, 2023

Sekretaris Jenderal BKS-TM Indonesia

Prof. Dr. Ario Sunar Baskoro, S.T., M.T., M.Eng

Ketua Program Studi Teknik Mesin
Fakultas Teknik Universitas Pasundan

Dr. Ir. Sugiharto, M.T.

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI

bangk!t

Kampus Merdeka INDONESIA JAYA

BA23/GRAD/XXIV-01/M009BSY0902

Certificate of Completion

is proudly presented to

Riyan Firmansyah

for successfully completing **Bangkit, specializing in Machine Learning.**

Bangkit is a Google-led academy designed to produce high-caliber technical talent for world-class Indonesian technology companies and startups.

January 19, 2024

Dora S.

Dora Songco

Product Marketing Manager
Google Indonesia

Google   goto   traveloka

REPUBLIK INDONESIA

KEMENTERIAN HUKUM

SERTIFIKAT DESAIN INDUSTRI

Menteri Hukum atas nama Negara Republik Indonesia berdasarkan Undang-Undang Nomor 31 Tahun 2000 tentang Desain Industri, memberikan hak Desain Industri kepada :

Nama dan Alamat Pemegang Desain Industri	:	**Universitas Gunadarma** Indonesia Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Pendesain	:	**Dr. Ir. Sulaksana Permana, S.T., M.T., Andhika Dwi Firnanda, 3. (lihat lampiran)**
Judul Desain Industri	:	**Kipas Portabel**
Pelindungan diberikan untuk	:	**Bentuk dan Konfigurasi**
Nomor Pendaftaran	:	**IDD000077477**

Sertifikat ini berlaku 10 (sepuluh) tahun terhitung sejak tanggal penerimaan permohonan **20 Februari 2025**.

Sertifikat Desain Industri ini dilampiri dengan gambar, uraian atau keterangan yang tidak terpisahkan dari sertifikat ini.

a.n MENTERI HUKUM REPUBLIK INDONESIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Agung Damar Sasongko, S.H., M.H.
NIP 196912261994031001

LAMPIRAN

Nomor Permohonan	:	A00202501018
Tanggal Penerimaan	:	20 Februari 2025
No Pendaftaran	:	IDD000077477
Pemohon	:	**Universitas Gunadarma** Indonesia Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Konsultan	:	-
Judul Desain Industri	:	Kipas Portabel
Pendesain Lainnya	:	Dr. Ir. Sulaksana Permana, S.T., M.T. Andhika Dwi Firnanda Bagas Ade Rahmat Ega Nopiani Bahtiar Muhammad Naufal Putranto, S.T., M.T. Ryan Firmansyah, S.T. Farul Apriansa, S.T. Iwan Susanto, S.T., M.T., PhD Dr. Rodiah

SURAT PENCATATAN CIPTAAN

Dalam rangka pelindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan	:	EC00202509267, 20 Januari 2025
Pencipta		
Nama	:	**Dr.-Ing. Mohamad Yamin, Dr. Cokorda Prapti Mahandari dkk**
Alamat	:	Perumahan Taman Puspa Kav. 113, RT10 RW01, Pasir Gunung Selatan, Cimanggis, Depok, Jawa Barat, 16451
Kewarganegaraan	:	Indonesia
Pemegang Hak Cipta		
Nama	:	**Universitas Gunadarma**
Alamat	:	Jl Margonda Raya No. 100 Pondok Cina, Beji, Depok, Jawa Barat, 16424
Kewarganegaraan	:	Indonesia
Jenis Ciptaan	:	**Buku Panduan/Petunjuk**
Judul Ciptaan	:	**Simulasi Dinamik Kendaraan Dengan Software MSC Adams/Car**
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia	:	20 Januari 2025, di Depok
Jangka waktu pelindungan	:	Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.
Nomor pencatatan	:	000848630

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n. MENTERI HUKUM
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Agung Damarsasongko,SH.,MH.
NIP. 196912261994031001

Disclaimer:
Dalam hal pemohon memberikan keterangan tidak sesuai dengan surat pernyataan, Menteri berwenang untuk mencabut surat pencatatan permohonan.

LAMPIRAN PENCIPTA

No	Nama	Alamat
1	Dr.-Ing. Mohamad Yamin	Perumahan Taman Puspa Kav. 113, RT10 RW01, Pasir Gunung Selatan, Cimanggis, Depok
2	Dr. Cokorda Prapti Mahandari	Komplek Poin Mas D4 No 5 , Pancoran Mas, Depok
3	Riyan Firmansyah, ST.	Dusun Benda, Kelurahan Patrol Lor8, Patrol, Indramayu

REPUBLIK INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SERTIFIKAT DESAIN INDUSTRI

Menteri Hukum dan Hak Asasi Manusia atas nama Negara Republik Indonesia berdasarkan Undang-Undang Nomor 31 Tahun 2000 tentang Desain Industri, memberikan hak Desain Industri kepada :

Nama dan Alamat Pemegang Desain Industri	:	**Universitas Gunadarma** Jl Margonda Raya No.100 Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Pendesain	:	**Dr.-Ing. Mohamad Yamin, Dr. Ir. Sunyoto, MT., 3. (lihat lampiran)**
Judul Desain Industri	:	**Turbin Savonius Panel Surya Portabel**
Pelindungan diberikan untuk	:	**Bentuk dan Konfigurasi**
Nomor Pendaftaran	:	**IDD000069380**

Sertifikat ini berlaku 10 (sepuluh) tahun terhitung sejak tanggal penerimaan permohonan **21 Juli 2023**.

Sertifikat Desain Industri ini dilampiri dengan gambar, uraian atau keterangan yang tidak terpisahkan dari sertifikat ini.

a.n MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto
NIP 196412081991031002

LAMPIRAN

Nomor Permohonan	:	A00202303021
Tanggal Penerimaan	:	21 Juli 2023
No Pendaftaran	:	IDD000069380
Pemohon	:	**Universitas Gunadarma** Jl Margonda Raya No.100 Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Konsultan	:	-
Judul Desain Industri	:	Turbin Savonius Panel Surya Portabel
Pendesain Lainnya	:	Dr. Ir. Sulaksana Permana, MM., MT. Riyan Firmansyah

REPUBLIK INDONESIA

KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SERTIFIKAT DESAIN INDUSTRI

Menteri Hukum dan Hak Asasi Manusia atas nama Negara Republik Indonesia berdasarkan Undang-Undang Nomor 31 Tahun 2000 tentang Desain Industri, memberikan hak Desain Industri kepada :

Nama dan Alamat Pemegang Desain Industri	:	**Universitas Gunadarma** Jl Margonda Raya No. 100 Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Pendesain	:	**Dr. Ir. Tri Mulyanto, MT., Dr. Ir. Sunyoto, MT., 3. (lihat lampiran)**
Judul Desain Industri	:	**Mesin es putar otomatis**
Pelindungan diberikan untuk	:	**Bentuk dan Konfigurasi**
Nomor Pendaftaran	:	**IDD000068385**

Sertifikat ini berlaku 10 (sepuluh) tahun terhitung sejak tanggal penerimaan permohonan **03 Februari 2023**.

Sertifikat Desain Industri ini dilampiri dengan gambar, uraian atau keterangan yang tidak terpisahkan dari sertifikat ini.

a.n MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto
NIP 196412081991031002

LAMPIRAN

Nomor Permohonan	:	A00202300457
Tanggal Penerimaan	:	03 Februari 2023
No Pendaftaran	:	IDD000068385
Pemohon	:	**Universitas Gunadarma** Jl Margonda Raya No. 100 Pondok Cina, Beji, Kota Depok, Jawa Barat 16424 , Indonesia (ID)
Nama Konsultan	:	-
Judul Desain Industri	:	Mesin es putar otomatis
Pendesain Lainnya	:	Yoga Pratama Rafi A. Rahman Riyan Firmansyah Muhammad Rizky Maulana

REPUBLIK INDONESIA

KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SERTIFIKAT DESAIN INDUSTRI

Menteri Hukum dan Hak Asasi Manusia atas nama Negara Republik Indonesia berdasarkan Undang-Undang Nomor 31 Tahun 2000 tentang Desain Industri, memberikan hak Desain Industri kepada :

Nama dan Alamat Pemegang Desain Industri	:	**Universitas Gunadarma** Jl Margonda Raya No. 100 Pondok Cina Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Pendesain	:	**Drs. Rudi Irawan, M.Sc., Ph.D., Dr. Ir. Tri Mulyanto, MT., 3. (lihat lampiran)**
Judul Desain Industri	:	**Helm Pengendara Sepeda Motor yang Nyaman dan Produsen Energi**
Pelindungan diberikan untuk	:	**Konfigurasi**
Nomor Pendaftaran	:	**IDD000068011**

Sertifikat ini berlaku 10 (sepuluh) tahun terhitung sejak tanggal penerimaan permohonan **03 Februari 2023**.

Sertifikat Desain Industri ini dilampiri dengan gambar, uraian atau keterangan yang tidak terpisahkan dari sertifikat ini.

a.n MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto
NIP 196412081991031002

LAMPIRAN

Nomor Permohonan	:	A00202300459
Tanggal Penerimaan	:	03 Februari 2023
No Pendaftaran	:	IDD000068011
Pemohon	:	**Universitas Gunadarma** Jl Margonda Raya No. 100 Pondok Cina Pondok Cina, Beji, Kota Depok, Jawa Barat 16424, Indonesia (ID)
Nama Konsultan	:	-
Judul Desain Industri	:	Helm Pengendara Sepeda Motor yang Nyaman dan Produsen Energi
Pendesain Lainnya	:	Riyan Firmansyah Ali Akbar Abdullah Latifah Ria Maulana

REPUBLIK INDONESIA

KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SERTIFIKAT DESAIN INDUSTRI

Menteri Hukum dan Hak Asasi Manusia atas nama Negara Republik Indonesia berdasarkan Undang-Undang Nomor 31 Tahun 2000 tentang Desain Industri, memberikan hak Desain Industri kepada :

Nama dan Alamat Pemegang Desain Industri	:	**UNIVERSITAS GUNADARMA** Jalan Margonda Raya No 100 Pondok Cina, Beji, Kota Depok, Jawa Barat 16457, Indonesia (ID)
Nama Pendesain	:	**Dr. Ir. Sulaksan Permana, MM., MT.,** **Dr. Ir. Tri Mulyanto, MT,** **3. (lihat lampiran)**
Judul Desain Industri	:	**Alat Pencegah Kucing BAB di Pot**
Pelindungan diberikan untuk	:	**Bentuk dan Konfigurasi**
Nomor Pendaftaran	:	**IDD000068005**

Sertifikat ini berlaku 10 (sepuluh) tahun terhitung sejak tanggal penerimaan permohonan **03 Februari 2023**.

Sertifikat Desain Industri ini dilampiri dengan gambar, uraian atau keterangan yang tidak terpisahkan dari sertifikat ini.

a.n MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto
NIP 196412081991031002

LAMPIRAN

Nomor Permohonan	:	A00202300427
Tanggal Penerimaan	:	03 Februari 2023
No Pendaftaran	:	IDD000068005
Pemohon	:	**UNIVERSITAS GUNADARMA** Jalan Margonda Raya No 100 Pondok Cina, Beji, Kota Depok, Jawa Barat 16457, Indonesia (ID)
Nama Konsultan	:	-
Judul Desain Industri	:	Alat Pencegah Kucing BAB di Pot
Pendesain Lainnya	:	Dr. Supriyono, ST., MT. Iwan Susanto, ST., MT., Ph.D. Riyan Firmansyah Muhammad Rizky Maulana

REPUBLIK INDONESIA

KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SERTIFIKAT DESAIN INDUSTRI

Menteri Hukum dan Hak Asasi Manusia atas nama Negara Republik Indonesia berdasarkan Undang-Undang Nomor 31 Tahun 2000 tentang Desain Industri, memberikan hak Desain Industri kepada :

Nama dan Alamat Pemegang Desain Industri	:	**UNIVERSITAS GUNADARMA** JALAN MARGONDA RAYA NO 100 PONDOK CINA DEPOK, 16457, Kota Depok, Jawa Barat, Indonesia (ID)
Nama Pendesain	:	**Dr. Ir. Sulaksan Permana, MM., MT., Dr. Ir. Tri Mulyanto, MT., 3. (lihat lampiran)**
Judul Desain Industri	:	**Payung pelindung penumpang saat keluar mobil**
Pelindungan diberikan untuk	:	**Bentuk dan Konfigurasi**
Nomor Pendaftaran	:	**IDD000067587**

Sertifikat ini berlaku 10 (sepuluh) tahun terhitung sejak tanggal penerimaan permohonan **03 Februari 2023**.

Sertifikat Desain Industri ini dilampiri dengan gambar, uraian atau keterangan yang tidak terpisahkan dari sertifikat ini.

a.n MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto
NIP 196412081991031002

LAMPIRAN

Nomor Permohonan	:	A00202300436
Tanggal Penerimaan	:	03 Februari 2023
No Pendaftaran	:	IDD000067587
Pemohon	:	**UNIVERSITAS GUNADARMA** JALAN MARGONDA RAYA NO 100 PONDOK CINA DEPOK, 16457, Kota Depok, Jawa Barat, Indonesia (ID)
Nama Konsultan	:	-
Judul Desain Industri	:	Payung pelindung penumpang saat keluar mobil
Pendesain Lainnya	:	Dr. Supriyono, ST., MT Iwan Susanto, ST., MT., Ph.D. Riyan Firmansyah Muhammad Rizky Maulana

SURAT PENCATATAN

CIPTAAN

Dalam rangka pelindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan	:	EC002022113598, 27 Desember 2022
Pencipta		
Nama	:	**Tri Mulyanto, Riyan Firmansyah dkk**
Alamat	:	Jl. Moch Kahfi II, Gg. Kramat Bambu, Srengseng Sawah, Jagakarsa, Jakarta Selatan, DKI JAKARTA, 12640
Kewarganegaraan	:	Indonesia
Pemegang Hak Cipta		
Nama	:	**Universitas Gunadarma**
Alamat	:	Jl Margonda Raya No. 100 Pondok Cina, Depok, JAWA BARAT, 16424
Kewarganegaraan	:	Indonesia
Jenis Ciptaan	:	**Karya Rekaman Video**
Judul Ciptaan	:	**Inovasi Perangkat Masak: Kompor Biomassa**
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia	:	26 Desember 2022, di Depok
Jangka waktu pelindungan	:	Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.
Nomor pencatatan	:	000429342

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n Menteri Hukum dan Hak Asasi Manusia
Direktur Jenderal Kekayaan Intelektual
u.b.
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto
NIP.196412081991031002

LAMPIRAN PENCIPTA

No	Nama	Alamat
1	Tri Mulyanto	Jl. Moch Kahfi II, Gg. Kramat Bambu, Srengseng Sawah, Jagakarsa
2	Riyan Firmansyah	Dusun Benda, Patrol Lor, Patrol
3	Supiani	Jl. Nurul Hikmah III Kelapadua, Tugu, Cimanggis