



Curriculum Vitae

Aan Yudianto, S.Pd., M.Sc.



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Status : Tenaga Pendidik

Riwayat Pendidikan :

Bachelor Degree - Automotive Engineering Education - Yogyakarta State University (INDONESIA)

- Principal subjects covered: Automotive Design, Engineering Drawing, Fluid Mechanics, Engineering Materials, Advanced Mathematics, Statics and Strength of Materials, Automotive Fuel and Lubricant, Thermodynamics, Elements of Automotive Mechanics, Steering Brake and Suspension, Auto Body Construction, Gasoline Engine Technology, Vehicle Mechanics and Dynamics, Transportation Regulation and Management, Automotive Electricity and Electronics, Powertrain Systems, Pneumatics and Hydraulics, Diesel Engine Technology, Advanced Vehicle Technology

Non Degree - International Summer School in Automotive Engineering and Management - Technische Hochschule Ingolstadt (GERMANY)

- Principal subjects covered: Basic courses on Automotive Design, Vehicular Communication via VANETs, New Trends in Automotive Mobility, Automated Driving: State-of-the-Art Challenges and Potential, Marketing Concepts and Challenges in Automotive Industry, Competitive Strategy: Price Wars, Smartphone Wars and Indirect Assaults, Company visit to Mercedes-Benz, AIRBUS, BMW, and Audi

Master Degree - Master of Science in Automotive Engineering - Politecnico di Torino (ITALY)

- Principal subjects covered: Car Body Design and Aerodynamics, Combustion Engines and Their Application to Vehicle, Fundamental of Machine Design and Drawing, Product Quality Design, Strategic Marketing and Products Planning, Automatic Control, Plants and Manufacturing System, Commercialization and Related Services, Ergonomics for Manufacturing Systems, Electric and Electronic System in Vehicles, Numerical Modelling and Simulation, Project Management and Cost/Value Analysis

Keahlian :

Automotive Design and Simulation

Research Interests:

1. Multidisciplinary automotive numerical modelling and simulation
2. Computational automotive aerodynamics
3. Drag reduction



4. Mechanical design and optimization

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Bidang Pendidikan :

Teaching responsibilities:

- Automotive Design
- Automotive Mechanic Elements: Finite Element Method
- Basic Engineering Physics

Bidang Penelitian :

Research Group:

Automotive Body Design and Simulation Research

Selected Journal Publications:

- A. Yudianto, I. W. Adiyasa, and A. Yudiantoko, "Aerodynamics of bus platooning under crosswind," *Automotive Experiences*, 2021, doi: 10.31603/ae.5298.
- A. Yudianto et al., " Aerodynamic Characteristics of Overtaking Bus under Crosswind," *International Journal on Advanced Science, Engineering and Information Technology*, UNDER REVIEW
- A. Yudianto et al., "Aerodynamic Investigation of Three-Wheeler Efficient Vehicle under Side Wind," *International Journal on Advanced Science, Engineering and Information Technology*, UNDER REVIEW
- A. Yudianto et al., "Feasibility study of a facility to produce injection molded parts for automotive industry," *International Journal of Production Management and Engineering*, vol. 8, no. 1, 2020, doi: 10.4995/ijpme.2020.12360.
- A. Yudianto and P. Li, "Influence of compression ratio on flywheel dimension for a naturally aspirated spark ignition engine: A numerical study," *Automotive Experiences*, 2020, doi: 10.31603/ae.v3i2.3530.

Selected Paper Conference:

- A. Yudianto, H. A. Susanto, A. Suyanto, I. W. Adiyasa, A. Yudiantoko, and N. A. Fauzi, "Aerodynamic performance analysis of open-wheel vehicle: Investigation of wings installation under different speeds," in *Journal of Physics: Conference Series*, 2020, doi: 10.1088/1742-6596/1700/1/012086.



- A. Yudianto et al., "Aerodynamic Study of Vehicles in Formation under Crosswind," 4th International Conference on Vocational Education of Mechanical and Automotive Technology (Icovemat) 2021, UNDER REVIEW to be published in AIP Conference Proceeding
- Gunadi, H. Sofyan, A. Yudianto et al., "On the Options for Bus Aerodynamic Profile Optimization," 4th International Conference on Vocational Education of Mechanical and Automotive Technology (Icovemat) 2021, UNDER REVIEW to be published in AIP Conference Proceeding
- A. Yudianto et al., "Aerodynamic Investigation of Misaligned Four-Vehicle Platoon," 4th International Conference on Vocational Education of Mechanical and Automotive Technology (Icovemat) 2021, UNDER REVIEW to be published in AIP Conference Proceeding
- A. Yudianto, S. Ghafari, P. Huet, and M. Wakid, "Evaluation of the Temperature Distribution and Structural Deformation of the Car Dashboard Subjected to Direct Sunlight," in Journal of Physics: Conference Series, 2019, vol. 1273, no. 1, doi: 10.1088/1742-6596/1273/1/012076.
- A. Yudianto, N. Kurniadi, I. Wayan Adiyasa, and Z. Arifin, "The Effect of Masses in the Determination of Optimal Suspension Damping Coefficient," in Journal of Physics: Conference Series, 2019, vol. 1273, no. 1, doi: 10.1088/1742-6596/1273/1/012067.
- A. Yudianto, A. P. Prasetyono, I. W. Adiyasa, K. B. Purnomo, and N. A. Fauzi, "Impact loading performance investigation of an open-face motorcycle helmet with hole in inner liner," in Journal of Physics: Conference Series, 2020, doi: 10.1088/1742-6596/1700/1/012085.
- A. Yudianto, S. Ghaffari, P. Huet, I. W. Adiyasa, and J. N. Rohman, "The influence of spot weld on the stiffness of a car body T-joint," in Journal of Physics: Conference Series, 2020, doi: 10.1088/1742-6596/1700/1/012087.