



MUHAMMAD ZEIN AULIA

Address: Kp. Nagrog, Ds. Wargakerta, Kec. Sukarama, Kab. Tasikmalaya
Phone: 0821-1172-3127
Email: mhmdzeinaulia@gmail.com
Website: <https://www.linkedin.com/in/muhammad-zein-aulia-330533363/>

SUMMARY

A student of Mechanical Design and Construction Engineering with a focus on engineering design and technical competencies in mechatronics, manufacturing, and control systems. Skilled in the design and analysis of machine components, creation and interpretation of technical drawings according to standards, and proficient in CAD software such as AutoCAD and SolidWorks. Knowledgeable in the integration of mechanical-electrical systems, fundamentals of actuators and sensors, and basic control system concepts. Possesses understanding of manufacturing processes, material selection, and design considerations for manufacturability. Accustomed to working analytically, meticulously, and with a focus on efficient, practical technical solutions.

PROJECT EXPERIENCE

Human-Powered Vehicle Design and Competition (Mechanical Team)

- Mechanical Assembly & Maintenance
- Drivetrain & Chassis Support
- Competition Technical Support

CVT Pulley Failure Analysis for Mio 2008

- Dimensional Measurement & Inspection
- 3D Modeling & Reconstruction
- CAE & Stress Analysis
- Failure Analysis

Reverse Engineering Powder Metallurgy Mixer

- Reverse Engineering & 3D Modeling
- Structural Analysis (CAE)
- CAE & Stress Analysis
- Electrical & Control System Analysis
- System Function Evaluation

EDUCATION

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| Politeknik Negeri Bandung Mechanical Engineering Study Program Mechanical Design and Contruction | Agust 2023-Now |
| MAN 1 Tasikmalaya MIPA | July 2020-June 2023 |
| Pesantren KHZ Musthafa Sukamanah Ibtidaiyyah | July 2020-June 2023 |

HARDSKILL

- Mechanical Design & Drafting
- CAE / Simulation & Analysis
- Manufacturing & Fabrication
- Mechatronics & Electrical Systems
- Structural & Load Optimization
- Prototyping & Assembly

SOFTWARE

- AutoCAD
- SolidWorks
- Inventor
- Catia V520
- Mastercam X5
- Cimatron E

SOFTSKILL

- Problem Solving & Analytical Thinking
- Teamwork & Collaboration
- Project Management Basics
- Communication & Documentation
- Time Management
- Creativity & Innovation

PORTOFOLIO

