

# Daffa Budiman

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Dedicated Mechanical Engineering graduate with a strong background in mechatronics, reliability, maintenance, and mechanical design, seeking a challenging position as an Entry-Level Mechanical Engineer or any other opportunity. Offering expertise in 3D design, mechanical engineering, and problem solving to contribute effectively to a dynamic engineering team.



## WORK EXPERIENCES

### **Mechanical and Electrical Engineering Intern, PT. Agrividia Solusi Nusantara** Dec 2023 – Feb 2024

- Created a prototype of conveyor system for palm fruit sorting using shapr3d, 3D printer, Arduino with a tight deadline 1 month.
- Created a full-size conveyor system for palm fruit sorting, integrating mechanical and electrical circuits for seamless operation.
- Programmed Arduino for weight sensor and configured PLC for 3-phase motor control and hopper (using pneumatic) control with deadline 2 months.

### **Reliability and Maintenance Intern, PT. Cabot Indonesia** March 2021 – July 2021

- Learn the production process of carbon black and knowing the machinery equipments of the production.
- Demonstrated proficiency in creating detailed 3D designs using Solidworks and conducted Thermo-Structural Analysis using Ansys.
- Conducted a comprehensive analysis of the effects of adding bellows to the inlet air pipeline at the combustion chamber.

### **Mechanical Design Freelance, CV. Vierma Engineering** February 2021

- Successfully created a comprehensive set of mechanical drawings for a project, totaling 20 pages of detailed design.
- Create a 5-page exploded view drawing.
- Completed the entire project within a tight deadline of 3 days.

## EDUCATIONS

### **Bandung Institute of Technology** August 2017 – August 2023

- Completed Bachelor of Mechanical Engineering with a GPA of 3.13/4.00,
- Developed a final project titled "Development Control System of Lower Limb Exoskeleton for People with Paraplegia", Implemented comprehensive control algorithms using PID and arduino, resulting in a significantly improved user experience with the exoskeleton. This project improves problem solving, mechanical engineering, mechatronics, and mechanical design skills.

## ORGANIZATIONS

### **Head of Chassis Departement, Red Container Karting Team (RCKT ITB)** Jan 2020 – Dec 2020

- Responsible for maintaining and developing kart chassis.
- Read and follow technical documentation to complete accurate repairs.
- Solve the kart chassis problem with limited materials.
- Lead the team to make kart parts with limited materials and tools.

### **Head of the Kinship Bureau, Koperasi Asrama Mahasiswa BG ITB** Feb 2019 – Oct 2020

- Responsible for creating programs to improve internal relationships between members.

### **Staff of Competition Division, Himpunan Mahasiswa Mesin ITB (HMM ITB)** Sep 2019 – Feb 2020

- Responsible for updating the competition list on the website every 2 weeks.
- Responsible for holding one competition seminar about sharing experience to increase enthusiasm in competition.

## CERTIFICATIONS & TRAINING

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- **Inventory Management Strategy for Manufacturing Companies** Mar 2024  
<https://skillacademy.com/sertifikat/J0WUIE3TJQ2II4>
- **TOEFL ITP Test Score 533** Mar 2023  
[www.e-ujian.com/cert/bSG5JW.45671](http://www.e-ujian.com/cert/bSG5JW.45671)
- **CSWP - Certified SOLIDWORKS Professional** Dec 2020  
The certification for Mechanical Design at the level of PROFESSIONAL (C-2QYV3ZN657)

## SKILLS

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- Technical: Python, Arduino, C++, ANSYS, AutoCAD, Solidworks, Catia, KiCad, MATLAB, MS Office.
- Language: Native Indonesia, Intermediate English.