



TESYA PERMADI

082115500981 | tesapermadi877@gmail.com | linkedin.com/in/tesya-permadi-167118222 | tesyapermadi.carrd.co

Cikarang

Bachelor's degree in Industrial Automation and Robotic Engineering Education with strong expertise in robotics, mechatronics, and hardware design. Skilled in MATLAB, Simulink, Solidworks, and AutoCAD with hands-on experience developing manipulator and autonomous mobile robots. Proven track record of publishing research and winning awards in robotics competitions. Strong problem-solving, collaboration, and communication skills, ready to contribute to innovative automation projects.

Work Experiences

Badan Riset dan Inovasi Nasional (BRIN) - Bandung

Jul 2023 - Oct 2023

Internship

- Developed a manipulator robot (RoChargV1) using MATLAB and Simulink, including prototype creation and physical testing, resulting in two IEEE-published papers presented at IC3INA 2023.
- Optimized 8 software features of the UniVAP autonomous mobile robot and performed hardware modifications and component integration, improving system reliability and minimizing mechanical failures during testing.
- Presented research results to 100+ international participants at IC3INA 2023, demonstrating strong communication and technical reporting skills.

PT. NAT METRIK INDONESIA - Cikarang

Sep 2024 - Present

Design Engineer

- Designed 300+ fabrication projects, including 5 IP65 electrical panels and 1 industrial peanut crusher machine, ensuring mechanical integrity and compliance with safety standards.
- Created detailed technical drawings and assembly instructions to improve manufacturing process clarity and minimize potential errors.
- Collaborated with a cross-functional division to deliver projects on time and maintain consistent quality across multiple production batches.

Education

Universitas Pendidikan Indonesia - Bandung

Sep 2020 - Aug 2024

Bachelor of Industrial Automation and Robotic Engineering Education, 3.69/4.00

- Focused on Mechatronics, Robotics, Microcontrollers, and Hardware Design.
- Capstone Project: Designed and developed a manipulator robot from simulation (MATLAB/Simulink) to prototype and physical testing.

Organisational Experience

Komunitas Mahasiswa Penggemar Otomasi dan Robotika Universitas Pendidikan Indonesia (KOMPOR UPI) - Bandung

Jul 2023 - Jul 2024

Vice Chairman of Logistics

- Managed and tracked inventory of equipment and materials to ensure availability for organization activities and competitions.
- Coordinated procurement and supply of goods, supporting smooth execution of organizational projects and events.
- Ensured proper documentation of equipment loans and returns to maintain accountability.

Skills and Achievements

- **Soft Skills:** Team Collaboration, Technical Documentation, Problem-Solving, Communication.
- **Hard Skills:** Mechanical Design, Electrical Panel Design, MATLAB, Simulink, SolidWorks, Autodesk Inventor, AutoCAD.
- **Bronze Award - 2nd Ravte Student Innovation Award 2023** 🏆: Led a team to design and present a robotics project, achieving Bronze Award at an international competition.
- **Speaker & Co-Author – IC3INA 2023 (IEEE Xplore):** Presented and co-authored two published papers on manipulator robot design and counterweight mechanism.
- **Participant - Kontes Robot Indonesia (KRI) 2022 - 2024:** Designed, built, and optimized competition robots as a mechanical division member.
- **Community Service (P2M KOMPOR UPI) 2021–2023:** Led engineering design efforts and coordinated team activities to deliver practical automation solutions for community projects.