

PRAMODA PRABASWARA

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Final year engineering student who is interested in control systems, IC design, and physics simulation with strong background in mathematics and physics.

Education

Bandung Institute of Technology <i>Undergraduate on Engineering Physics</i> Cumulative GPA: 3.59/4.00	Aug 2021 - Present
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Experience

Australian National University <i>Research Intern at RSES (Research School of Earth Science)</i> <ul style="list-style-type: none">Supervisor: Prof Louis MoresiTopic: Advanced Computational Modelling of Earth SystemsDeveloped computational tools for modeling using Underworld3, focusing on stokes and darcy flow experiments.	Jun 2024 - Sep 2024
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Project

Design Controller of LQR, PID-LQR, Internal Model Principle, Pontryagin's Minimum Principle, and Reinforcement Learning for 3-DOF Helicopter	Oct 2024 - Jan 2025
Model Predictive Control (MPC) for Trajectory Tracking of Quadrotor UAV	Jan 2025
Food Classification for Machine Learning using YOLOv11 and ResNet	Jan 2025
Digital Twin PLC for Data Center Chiller	Apr 2024 - Jun 2024
Dry Skin Detector with Image Processing	Apr 2024 - Jun 2024
Dehumidifier System for Copra	Apr 2024 - May 2024
Peltier-PLC Based IoT Control	Mar 2023 - May 2023
Android-ESP32 Based Controlled-MeArm Robot	Mar 2023 - May 2023
Automatic Dispenser	Nov 2022 - Dec 2022

Teaching Experience

System Dynamics <i>Assistant Lecturer</i>	Sep 2024 - Jan 2025
Engineering Computation <i>Laboratory Assistant</i>	Feb 2024 - Jun 2024
Introduction to Engineering Design <i>Assistant Lecturer</i>	Jan 2023 - May 2023

Organization

Indonesia Engineering Physics Student Forum

Head Division of Creation, Innovation and Collaboration

Oct 2023 – Present

Engineering Physics Student Association

Staff

Oct 2023 – Present

Autonomous Wheeled Soccer Robot Team

Mechanic Division Staff

Apr 2022 – Jul 2024

Ajak Gerak

Math Tutor

Aug 2021 – Dec 2021

Competition

Indonesia Robotics Contest, Round of 16

May 2023 – June 2023

2nd Winner on ASHRAE Setty Family Foundation

Applied Engineering Challenge

Feb 2023 – June 2023

Bronze Medalist on Thailand International Mathematical Olympiad, Heat Round

Sep 2019

Technical Skills

Control Engineering, Computational Geodynamics, Signal Processing, Image Processing, HMI Design, PLC, Programming Language (Python, Matlab), Electrical Design (Eagle, Arduino IDE), Mechanical Design (Autodesk Inventor, Solidworks), Linux Ubuntu (basic)