

ADAM SRIBAKTI KUSUMA WANGSA

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Mechanical Engineering graduate from Universitas Sebelas Maret (3.58 GPA, completed in 3 years and 9 months) specializing in design optimization, advanced materials, smart manufacturing, and sustainable energy, areas where deliberate engineering creates tangible real-world value.

Work Experiences

Teluk Naga Bahari - **Jl. Raya Kalibaru, Kalibaru, Pakuhaji, Tangerang, Banten** Jan 2025 - Mar 2025

Internship

- Ship & Boat Design: Drafted comprehensive Lines Plans, General Arrangements (GA), and Profile Construction drawings for a 38-feet leisure boat using AutoCAD.
- Hull Modeling & Performance Analysis: Designed parametric hull forms and conducted stability and hydrostatic analysis using Maxsurf to optimize vessel performance and compliance
- 3D Surface & Concept Modeling: Created high-detail 3D surface models using Rhinoceros to visualize complex hull curvature and components for production readiness.

Education Level

SMA Negeri 1 Klaten Jun 2019 - May 2022

Senior High School, MIPA

Universitas Sebelas Maret Aug 2022 - Apr 2026

Bachelor of Mechanical Engineering, 3.58/4.00

Organisational Experience

Keluarga Mahasiswa Teknik Mesin (KMTM) Mar 2023 - Dec 2023

Staff on Talent and Interest Development

- Played a key role in executing divisional programs by managing core administrative and on-site operational tasks, successfully delivering a new entrepreneurship concept titled "Craft a Good Coffee & Art of Latte", securing 40+ participants

Keluarga Mahasiswa Teknik Mesin (KMTM) Jan 2024 - Dec 2024

Vice Head Division of Talent and Interest Development

- Evaluated 7 division programs, optimizing execution schedules and establishing evaluation benchmarks, achieved an average performance score of 93.5 out of 100
- Facilitated monthly Team Health Assessment reviews for 18 members, resulting in a 4.8/5.0 division health score.
- Oversee the creation of 7 program standardization manuals to streamline project workflows, delivered 100% programs.

Bengawan Unmanned Vehicle Jan 2024 - Dec 2025

Design - Naval division

- Research sustainable materials, structural safety and aligning material selection with UN Sustainable Development Goals (SDGs).
- Conceptualized innovative marine machinery and propulsion to support decarbonization and Net Zero Emissions.
- As a division established in 2024, we have improved our technical capabilities and successfully carried out a winning ship design ranked 4th (First Runner-Up) in the Design and Construction Innovation category at the "Kontes Kapal Indonesia" (KKI) 2025.

Skills, Achievements & Other Experience

- **Capstone Project** (2025): Led the hull design and performance evaluation of a water hyacinth harvesting for Waduk Cengklik, delivering an optimized hull design with a top score of 0.813 out of 1.000.
- **Kuliah Kerja Nyata** (2025): I served as Team Leader while handle development of a prototype automated electric corn dryer machine. I directed team operations and designed a prototype, improving post-harvest efficiency for the local community.
- **Fusion 360 & Solidwork**: Leveraged SolidWorks and Fusion 360 as primary CAD tools across various engineering projects for detailed 3D modeling and mechanical design.
- **AutoCAD**: Proficient in AutoCAD as a primary tool for precise 2D drafting, layout design, and engineering documentation.
- **Ansyss Workbench**: Utilized ANSYS Workbench for FEA structural integrity checks and CFD fluid dynamics analysis to optimize engineering designs under real-world operating conditions.
- **Rhinoceros**: Proficient in Rhino 3D as a core tool for modeling complex surface geometry and detailed 3D design concepts.
- **Maxsurf**: Utilized Maxsurf as a tool for 3D hull geometry design, stability verification, and hydrodynamic performance evaluations.