

# DAFFA PUTRA ISLAMI

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## Education Level

**Universitas Sebelas Maret – Surakarta, Indonesia**

**Jul 2021 – May 2025**

*Bachelor Degree in Mechanical Engineering, 3.44/4.00*

- Relevant Coursework: Design and Simulation
- The first author international publication of the SQOPUS Q1 - Journal of Result Engineering “Structural Design Parameters of Laminated Composites for Marine Application”
- Thesis: Evaluation of Crevice Corrosion Effects from Biofouling on the Mechanical Response of Plates (to be published in SCOPUS Q1 - Journal of Ocean Engineering)
- Presenter in 3<sup>rd</sup> Thematic Symposium – Annual Conference of Mechanical Structures and Material (TS-IMS 2024)

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## Work Experience

**Badan Riset Inovasi Nasional – Surabaya, Indonesia**

**Apr 2024 – Des 2024**

*Research Assistant*

- Examining the effect of structural failure of floating buildings in corrosion environments
- Developed with the team in modeling corrosion from natural influences using the finite element method
- Conduct simulation testing of structural failure due to corrosion based on marine phenomena

**Badan Riset Inovasi Nasional – Surabaya, Indonesia**

**Jan 2024 – Mar 2024**

*Research Engineering Intern*

- As the first author of a peer-reviewed research paper addressing the parameterized design of laminated composites, contribute to a comprehensive review of knowledge in marine applications
- Researched and executed a finite element method (FEM) simulation using Abaqus CAE to perform high-fidelity evaluation and analysis of marine structures

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## Organizational Experience

**Bengawan Unmanned Vehicle Team UNS – Surakarta, Indonesia**

**Des 2023 – Nov 2024**

*General Manager*

- The role of coordinating 130 members of the research team, consisting of 3 major divisions, namely the aero technical division, naval technical division and non-technical division
- Coordinated strategic planning, inter-divisional collaboration, and project execution for national and international competitions.
- Build and maintain relationships with stakeholders: sponsors, supervisors, universities, and research partners

**Bengawan Unmanned Vehicle Team UNS – Surakarta, Indonesia**

**Des 2022 – Nov 2023**

*Head of Technology Development Airframe Innovation Team*

- Leading a team in developing a renewable airframe innovation in the Kontes Robot Terbang Indonesia

**Bengawan Unmanned Vehicle Team UNS – Surakarta, Indonesia**

**Des 2021 – Nov 2022**

*Staff of Design Manufacture*

- Responsible for design and manufacture requirements for the prototype of the Unmanned Aerial Vehicle (UAV)

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## Skills, Achievements & Other Project - [Portfolio](#)

- **Achievements** (2024): Grand Champions of Kontes Robot Terbang Indonesia (KRTI) 2024 – Kementerian Riset, Teknologi dan Pendidikan Tinggi ([Winner Decision Letter](#))
- **Achievements** (2023): 1<sup>st</sup> Place of Technology Development Airframe Innovation in Kontes Robot Terbang Indonesia (KRTI) 2023 – Kementerian Riset, Teknologi dan Pendidikan Tinggi ([Certificate](#))
- **Soft Skills**: Leadership, Teamwork, High Problem-solving, Critical thinking
- **Hard Skills**: CAD Designing, Structural Analysis, Finite Element Method Simulation
- **Project** (2022) Modular Configuration Airframe System – Hak Kekayaan Intelektual ([Haki Registration Receipt](#))
- **Certificate** (2022): Certified SOLIDWORKS Associate (CSWA) – Mechanical Design ([Certificate](#))