

INTAN MAHARDIKA

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Malang, Jawa Timur, Indonesia

A lecturer at the Department of Automotive and Robotics Engineering, BINUS ASO School of Engineering since January 2024. She received her bachelor degree in Mechanical Engineering at Institut Teknologi Sepuluh Nopember Surabaya in 2018. In 2019 she took the same major at Institut Teknologi Bandung and received her Master degree certification in 2022. Her field of study is in Vibration, Dynamics Systems, and Biomechanics.

Education Level

Institut Teknologi Bandung ∩ **- Bandung, Indonesia** Aug 2019 - Jan 2022

Masters Degree in Mechanical Engineering, 3.80/4.00

- Authored 3 papers in Biomechanics focusing on gait stability, and one title candidacy at World Congress of Biomechanics 2022 Taipei
- Initiated a new method of analysis, a premiere for ITB Biomechanics, as well as improving the data processing programming language which significantly decreased data analysis duration by more than 10 times.
- Served as professor's assistant for Biomechanics Laboratory in 2020 - 2021
- Served as lecture assistant for Finite Element Method in Feb 2020 - Dec 2020
- Served as lecture assistant for Kinematics and Dynamics of Machinery in Aug 2020 - Dec 2020

Institut Teknologi Sepuluh Nopember ∩ **- Surabaya, Indonesia** Aug 2014 - Sep 2018

Bachelor Degree in Mechanical Engineering, 3.10/4.00

- Authored and published a Vibration and Dynamics System paper
- Served as a laboratory assistant for Vibration and Dynamic Systems in 2017 - 2018

Work Experiences

BINUS ASO School of Engineering – **South Tangerang, Indonesia** Jan 2024 – Now

Associate Lecturer Specialist S2

- Experienced lecture in Physics and Strength of Materials
- Experienced lecture in Physics laboratory
- As an undergraduate thesis advicer for at least 10 students per term
- As an advicer for the internship students at least 10 students per term
- As an supervisor in student’s Summer Course program for 53 students in Fukuoka, Japan
- Succesfully lead the KRTI (Indonesian Flying Robot Competition) team until the final round
- Supporting role in EV development project in Indonesia

PT Indonesia Power UP Bali - **Denpasar, Indonesia** Dec 2017 - Jan 2018

Student Internship Program

- Assigned as an internship student in the Engine Maintenance (HAR) division
- Analyzed the root cause of damage on Wärtsilä Dual Fuel Diesel's exhaust valve of the cylinder head using the FMEA method
- Proposed a new preventive maintenance routine to prevent operational failure so that the frequency of repairs can be reduced

Research

Research Interests: Static and Dynamics Systems Modelling, Strength of Materials, and Topology Optimisation

Current Research Area: Strength of Materials and Biomechanics

- Participating in ICO-SEID 2024 Conference

Organizational and Committee Experience

Badan Eksekutif Mahasiswa (BEM) - FTI ITS - **Surabaya, Indonesia** Feb 2015 - Feb 2016

Staff of External Relations Department

- Improved relations between 9 departments within FTI, consisting of more than 6,500 students
- Maintained relations by holding BEM FTI alumni reunion events

DIMENSI Students Press Organization - **Surabaya, Indonesia** Feb 2015 - Feb 2017

- The staff of Human Resources Development - Maintained relations between organization staff, consisting of more than 15 students
- Chief of Internal Division - Increased the number of active members and engagement in press-related activity in the organization by more than 60%

Mechanical City Series - **Surabaya, Indonesia**

- Treasury Committee (Jan 2015 - Mar 2015)
- Secretarial Committee (Feb 2016 - Apr 2016)
- Organizing Committee (Feb 2017 - Apr 2017)

Public Relation Training - **Surabaya, Indonesia** Nov 2015

Organizing Committee

Meet The Technocrat (MTT) - **Surabaya, Indonesia** Feb 2016

Event Coordinator

Courses and Training

- **Digistar Class - Mentoring Program by Telkom Indonesia** ∩ (2022): Mentoring to improve skills for the digital industry revolution
- **ASEAN Data Science Explorers** ∩ (2023): SAP Analytics Cloud training session