

# Mukhamad Suhermanto

## Contact

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## Languages

English  
Bahasa Indonesia  
Javanese  
Turkish  
Arabic

## Programming Languages

Python  
Eng. Eq. Solver (EES)  
VBA  
HTML  
 $\text{\LaTeX}$

## Design

Canva  
Basic Photoshop  
Prompt-based Design

## Management

Ms Teams  
Planner

## Experience

2024-2025 **Graduate Assistant, AAARCC**  
Graduate Assistantship

Purdue University

**Cascade-HTML:** Managing AAARCC's website  
**Workflow Optimization:** Responsible in transferring the AAARCC's workflow to one-gate MsTeams, integrating apps to MsTeams, creating Visitor Check-in System using VBA  
**Databases:** AAARCC-related organizations, Nation-wide cultural centers, etc.

2021-2024 **Lead TA, Mechanical Engineering, Sch of Eng**  
Teaching Assistant (TA) and Lead TA, ME200-Thermodynamics I

Purdue University

**TA:** Conducting Office Hour, Grading Homework and Exam  
**Lead TA, since 2022:** Leading and Managing 6-13 TA Members each semester, creating Grade-scope rubrics, managing Brightspace, Coordinating Exam Proctoring, Paper Processing, and Grading

## Education

2018-present **PhD** in Environmental and Ecological Engineering

Purdue University, USA

2014–2016 **M. Eng** in Automotive Engineering

Kocaeli University, Turkey

2008-2013 **B.Ed** in Automotive Engineering Edu

State University of Malang, Indonesia

## Academic Paper

2021 **Performance evaluation of an automotive air conditioning and heat pump system using R1234yf and R134a**  
Science and Technology for the Built Environment 27 (1), 44-60

2018 **Support vector regression modeling of the performance of an R1234yf automotive air conditioning system**  
Energy Procedia 153 (October 2018), 309-314

2017 **Empirical correlations for the performance of an automotive air conditioning system Using R1234yf and R134a**  
Journal of Thermal Science and Technology 37, 1, p127-137. 11p

2016 **Effect of ambient temperature on the performance characteristics of automotive air conditioning system using R1234yf and R134a: Energy and exergy-based approaches**  
AIP Conference Proceedings 1778 (1), 030004

## Achievements

2018-2021 **Fulbright Scholarship for PhD Program**  
A three-year term of PhD Funding provided by Fulbright Foundation

Purdue University

2013-2016 **YTB Turkish Government Scholarship for Master Program**  
First-year full Turkish Programme, followed by two-year full Master Program in Automotive Engineering

Kocaeli University

2008-2012 **PT. ITC/ Educational Testing Service Country Ambassador Full Scholarship for Undergraduate Program**  
1 out of 7 selected for prestigious 4-year full scholarship for Undergraduate Programme

State University of Malang

2012	<b>Silver Medal of Student Achievement Award 2012</b> An Annual Award given by the university to acknowledge the best achievement students	State University of Malang
2011	<b>Gold Medal of Student Achievement Award 2011</b> School of Engineering, State University of Malang An Annual Award given by the School of Engineering to acknowledge the best achievement students	

## Interests

2018-present	<b>Education: Ilmu Academia</b> An Online platform to learn any kind of knowledge disciplines using web and YouTube Channel	Online Learning
2000-2013	<b>Education: Live Tutor for K12 Students</b> Giving a free-tutor for K12 students in Java region	Tutoring Program

## Skills

### Good Management Skills

various student organizations, including K12 Student Government and School of Engineering Student Government

### Learning Motivation

Have high learning motivation despite of coming from low-level economic backgrounds, proven by all scholarship achieved

### Quick Learning Capability

Quick learning capability is proven by the ability to speak in many foreign languages and ability to learn coding in Purdue. It also proven by

### Good in Communication

Able to work in very different field, such as marketing

### Balance Social Life

Always try to engage in community, for example conducting free hair-cut for student here in Purdue area

## Hobbies

### Learn New Technology

Learn about the latest technology which helpful in company and Improve my engineering and programming skills

### Soccer

Play indoor and outdoor soccer for fun

### Read Various Books

Love reading many different types of book ranging from history, education, psychology, dan technology