

Mostafa Rushdi

Research Assistant Prof. Aerospace Engineering

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26 October 1991

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Dazaifu, Fukuoka, Japan



morushdi.github.io



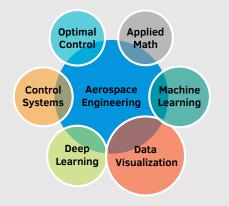
rushdimostafa@riam.kyushuu.ac.jp



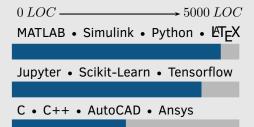
mostafa-rushdi

Skills -

Overview



Programming



Projects —

List - Available upon request.

Biosketch

Mostafa is an energetic, results-oriented, Aeronautical Engineer. He is currently a research assistant professor at the Research Institute for Applied Mechanics (RIAM), Kyushu University. He received a PhD degree at Kyushu University in Fukuoka, Japan, and has completed MSc and BSc degrees in Aeronautical and Aerospace Engineering from Cairo University, Egypt. Mostafa's research interests include guidance, control systems, embedded systems, optimization, and dynamics especially related to renewable energy systems. Recently, he is interested in the hot topics of ML, DL, AI, and data science in general. He combined ML/DL with his work in renewable energy systems and published a few papers.

Education

2017-2021 **Ph.D., Airborne Wind Energy Systems**Research on kite systems for energy harvesting, at the department of ESST - IGSES.

Thesis: "AirborneWind Energy Systems: Flight Data Analysis Using System Identification and Machine Learning, and Control of Launching."

2014-2017 **M.Sc., Aeronautical & Aerospace Engineering** Cairo University, *Egypt Thesis:* "Optimal Aircraft Evasion Trajectory: Analysis and Simulation of the Target-Attacker and the Target-Attacker-Defender Problems."

2009-2013 **B.Sc., Aeronautical & Aerospace Engineering** Cairo University, *Egypt Graduation Project:* "Micro-Flapping Air vehicle"

Professional Experience *

5.2022-	Research Assistant Professor	RIAM, Kyushu University, Japan
present	Applying data science to different fields	

3.2021- Postdoctoral Researcher RIAM, Kyushu University, Japan
 4.2022 Working on several projects related to renewable energy using machine learning methods.

4.2019- Intern, Airborne wind energy company Kitepower, Delft, Netherlands
 7.2019 Working with the company team on dynamic modeling and control of a rigid vertical take-off landing aircraft and simulation of the power cycle aiming to maximize the generated electricity.

4.2015- Teaching Assistant Future University, Cairo, Egypt
10.2017 Assisted in teaching courses on: Introduction to Embedded Systems, PLC, Quality Control, Dynamics of rigid bodies, Mechanical Mechanisms, Stress Analysis, Properties of materials.

2012 Intern, Aeronautical Engineering Labs

Trained on systems of the commercial passenger jet Airbus 320.

Attended workshops on: "Turbofan Engine Overhaul". Tested and validated oxygen cylinders, landing gears, and escape slides.

Selected Awards *

• **Top Mechanical Project Award, CANSAT project**, by the *Egyptian Engineering Day (EED), Cairo Egypt*, 2011.

Publications





