



# Mostafa Rushdi

Postdoc Researcher  
Aerospace Engineering

26 October 1991

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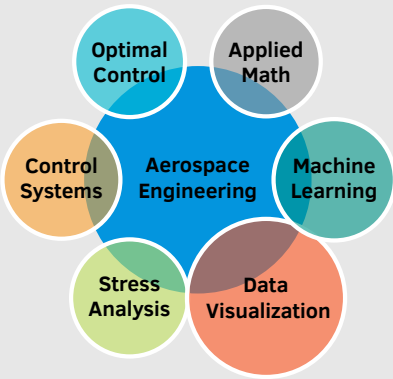
Dazaifu, Fukuoka, Japan

<http://morusudi.github.io/>

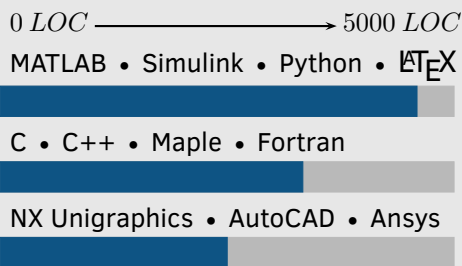
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mostafa-rushdi

## Skills Overview



### Programming



## Projects

List - Available upon request.

## Biosketch

Mostafa is an energetic, results-oriented, Aeronautical Engineer. He is currently a postdoctoral researcher 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.

## Education

- 2017-2021
**Ph.D., Airborne Wind Energy Systems**
Kyushu University, Japan
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

- 3.2021-present
**Postdoctoral Researcher**
RIAM, Kyushu University, Japan
Working on several projects related to renewable energy using machine learning methods.
- 4.2019-7.2019
**Intern, Airborne wind energy compony**
Kitepower, Delft, Netherlands
Working with the company team on dynamic modelling and control of a rigid vertical take off landing aircraft and simulation of the power cycle aiming to maximize the generated electricity.
- 4.2015-10.2017
**Teaching Assistant**
Future University, Cairo, Egypt
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**
EgyptAir, Cairo, Egypt
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.
- 2011 - 2013
**Intern, Egypt CAN-Sat**
Space Systems Technology Laboratory, Cairo, Egypt
Developed a circit using an Mbed microcontroller to interface with different sensors: pressure, temperature, accelerometer, gyroscope, GPS sensors, and wireless module XBEE. Also, organized Can-Sat Training Program (CTP2).

## Selected Awards

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

## Publications

