

PEDRO G. LEITE

321-440-7385 || pgleite2@illinois.edu || linkedin.com/in/pedro-g-leite

EDUCATION

Master of Science in Aerospace Engineering

University of Illinois Urbana-Champaign, Champaign, IL

Cumulative GPA: x.xx/4.00

Expected May 2024

Bachelor of Science in Aerospace Engineering

University of Illinois Urbana-Champaign, Champaign, IL

Cumulative GPA: 3.33/4.00

May 2023

Relevant Coursework:

Control Systems Theory

Aerospace Control Systems

Autonomous Systems Lab

Numerical Methods

Multi-Agent Systems Control

Aircraft Flight Mechanics

Aerospace Systems Design

Orbital Mechanics

PROJECTS

Control Systems (Class)

January 2023 – May 2023

- Designed and implemented a controller and observer to stabilize a reaction wheel inverted pendulum.

Communications Subsystem Lead

January 2023 – May 2023

MARS Surveyor and Communications Orbiters for Positioning and Exploration Satellite

- Sized antennas and electrical components of both space and ground radio for a Mars satellite mission to provide GPS, communication relay, and mineral mapping of the planet's surface.
- Presented the preliminary design review and won the class competition at the end of the semester.

TVC System Lead and Programmer

January 2022 – May 2023

AIAA – Liquid Rocket Initiative

- Organized timeline for timely design and manufacturing of liquid-bipropellant rocket test stand.
- Applied Object Oriented Programming in Python to develop a script that is used to size thrust chamber assemblies.

Aerospace Control Systems (Class)

April 2022 – May 2022

- Implemented an observer-based linear state feedback control design to stabilize a 4-rotor drone through a hoop circuit as quickly as possible, achieved 1st place in the class competition, performing 50% faster than the 2nd place.

PROFESSIONAL EXPERIENCE

Teaching Assistant

August 2023 – Present

Autonomous Systems Lab

Champaign, IL

- Guided a lab section of 18 students, assisting them in the system identification, design, and implementation of a controller and observer system to stabilize a Crazyflie 2.1 quadrotor drone.
- Held office hours to assist a class of over 140 students in debugging software issues as well as conceptual questions.

Team's Monitor Evaluator/Data Analysis Group Intern

June 2020 – August 2020

Azul Airlines

São Paulo, Brazil

- Analyzed and manipulated an Excel spreadsheet together with 5 team members to identify unsatisfactory sales.
- Formulated a data identification algorithm that was put in use by the company.

LEADERSHIP

- Engineering Council Dean's Student Advisory Committee Member

May 2022 – May 2023

- Alpha Delta Phi Interfraternity Council Chair/Re-founder

January 2022 – May 2023

- Engineering Council Awards Chair

May 2020 – May 2021

SKILLS

- Software: Python, MATLAB, LaTeX, GitHub, Siemens NX, Microsoft Suite
- Spoken Languages: Portuguese (Native), English (Fluent), Spanish (Fluent)