

# Pedro Luiz Balabuch Dal Bo

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## EDUCATION

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### Georgia Institute of Technology

Major: Candidate for B.S. in Mechanical Engineering  
GPA: 4.0

Atlanta, GA

Graduation Date: May 2024

### MAST Academy High School

Cambridge Diploma  
GPA: 5.5/4.0 | Class Valedictorian

Key Biscayne, FL

Graduation: June 2020

## EXPERIENCE

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### Vertically Integrated Project

Python Simulator Sub-team

Georgia Institute of Technology

August 2020-Present

- Worked with 5 other team members to develop optimized Path Planning algorithms in order to create a network of autonomous multiple mobile robot systems
- Researched several publications and interacted with the team on a weekly basis to define the direction of the project
- Learned to use python in developing an algorithm for optimization of resource use

### MAST Academy Chemistry Lab

Intern

Key Biscayne, FL

August 2019 – March 2020

- Enhanced efficiency of labs by organizing lab area by creating seating arrangements for 30-plus students and managing over 500 pieces of lab equipment
- Selected necessary materials for acid-base titrations, gravimetric analysis, qualitative analysis, calorimetry, and rate determination.
- Responsible for the inventory of 300 chemicals in the School
- Accelerated the organization and cleaning of lab area
- Created chemical solutions for various experiments

## LEADERSHIP

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### MATE Robotics Team

Team Captain and Head of Mechanical

Key Biscayne, FL

August 2018-March-2020

- Co-ordinated construction schedule to ensure optimized workflow, for a team of 20-plus students
- Oversaw and interacted with teammates on a daily basis to quantitatively and qualitatively assess and optimize the performance of the underwater ROV
- Negotiated with suppliers to obtain parts to facilitate fabrication
- Led team through participation in the MATE Gray's Reef Southeast Regional competition

### Water Polo Varsity Team

Team Captain

Key Biscayne, FL

August 2018-March-2020

- Led team of 15 students to two consecutive district championship finals
- Was voted team MVP in back-to-back years
- Served as a role model for underclassmen teammates

## ACADEMIC HONORS

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- Fall 2020 Faculty Honors
- Silver Knight Nominee in Science
- Featured in an article: *Full House for Youth Lead Change Program Launch*
- Sunshine State Scholar
- Harvard Book Award

## SKILLS

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### Technical

- **Computer Proficiency:** Microsoft Office, Python, SolidWorks
- **Instrumentation:** 3D printing
- **Languages:** English (native), Portuguese (native), Spanish (Fluent), German (Intermediate)