

# Charles Descamps

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## Summary

Dynamic individual currently enrolled in an aerospace and aeronautical English-speaking master's program at IPSA in Paris, delving into a range of intriguing subjects. Explored Artificial Intelligence, Machine Learning, and Cryptography at University of Miami as part of an exchange program. Active member of diverse clubs, including Stud'Act (humanitarian), IPL (rocketry), and ASME (mechanical engineering). Skillfully balanced academic pursuits with hands-on experiences and collaborative projects, shaping a well-rounded skill set within the aerospace and aeronautical domain.

## Experience



### Software Engineer

ASME (The American Society of Mechanical Engineers)

Sep 2023 - Dec 2023 (4 months)

A dedicated member of the Software team, actively contributing to the NASA LUNABOTICS Challenge. Successfully completing weekly tasks, attending regular meetings, and conducting research and programming activities are integral aspects of my role.



### Software Engineer Intern

Robotnik Automation

Jun 2022 - Jul 2022 (2 months)

Engaged member of the Software team during a one-month internship. Accomplished weekly tasks, actively participated in regular meetings, and conducted programming activities. Acquired proficiency in ROS and gained valuable knowledge in navigation and mapping, and played a key role in updating tools.



### Software Engineer

Innovative Propulsion Laboratory

Sep 2020 - Jun 2022 (1 year 10 months)

Contributed as a member of the Software team within the college club, expanding expertise in Python and conducting research to deepen knowledge in the field.

## Education



University of Miami

### MICEFA Scholarship

Exchange Computer Science

August 2023 – December 2023

During my stay at University of Miami, I explored a variety of subjects that truly fascinated me. I had the opportunity to follow several courses: "Introduction to Artificial Intelligence" and "Introduction to Machine Learning" as well as "Cryptography and Data Security" which were both

eye-opening and intriguing. I also took physics and math classes. Beyond the classroom, I joined the ASME club, where I met fantastic people who shared my interest in mechanical engineering and programming. The exchange experience was not just about academics but also about connecting with a community and discovering new perspectives.



### **IPSA, école d'ingénieurs de l'air et de l'espace**

Master's Degree, French Scientific Baccalaureate

September 2020 - June 2025

I pursued my higher education in an English master's program at IPSA in Paris, where I enrolled in the unique and comprehensive "PREPA intégré" curriculum for the initial two years. The "PREPA intégré" program provided a solid foundation, offering a well-rounded education encompassing various subjects. During this period, I gained a diverse set of skills and knowledge that laid the groundwork for my academic journey.

In the following years, I refined my focus by opting for the "Space, Launchers, and Satellites" specialization, in which I am presently immersed.

During my college years, I embraced a diverse range of experiences and interests. I actively participated in several clubs, serving as the secretary for Stud'Act, a humanitarian association dedicated to making a positive impact. Simultaneously, I joined the IPL club, where I contributed to the exciting world of rocketry, improving in programming.

Balancing my academic pursuits with my passion for sports, I also became a member of the handball club and subsequently the co-captain. These club involvements not only enriched my college experience but also allowed me to develop valuable skills in leadership, teamwork, and project management, fostering a well-rounded and dynamic approach to my education.



### **Lycée Lyautey au Maroc**

High School Diploma, French Scientific Baccalaureate

2017 - 2020

I pursued a scientific education at Lycee Lyautey in Morocco, where I engaged in a dynamic curriculum with a focus on sciences. Specializing in Computer Science and Digital Sciences. I actively participated in handball, cultivating not only my scientific knowledge but also fostering teamwork and discipline through sports

## **Licenses, Certifications & Languages**

**SPANISH – Mother tongue**

**FRENCH – Father tongue**



**TOEFL IBT - 109/120 - TOEFL**

Issued Dec 2022 - Expires Dec 2024

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## **TOEIC - 980/990 - The TOEIC Program**

Issued Jan 2023 - Expires Jan 2025

## **Skills**

Software Infrastructure • Software Design • MATLAB • GitHub • SQL • C/C++ • CATIA • Robot Operating System (ROS) • Python

## **Honors & Awards**



### **Valedictorian - IPSA, école d'ingénieurs de l'air et de l'espace**

Jun 2022

Recognized as the valedictorian for achieving the highest academic standing in the English-speaking program. This prestigious honor reflects my commitment to academic excellence, diligence, and a consistent pursuit of knowledge throughout my academic journey.



### **Valedictorian - IPSA, école d'ingénieurs de l'air et de l'espace**

Jun 2021

Recognized as the valedictorian for achieving the highest academic standing in the English-speaking program. This prestigious honor reflects my commitment to academic excellence, diligence, and a consistent pursuit of knowledge throughout my academic journey.