



## Danilo Nascimento

**Date of birth:** 2001

**Nationality:** Portuguese, Cape Verdean

**Gender:** Male

### CONTACT

Moscow, Russia (**Home**)

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<https://twitter.com/daniloinspace>

### ABOUT ME

Born in the city of Porto, Portugal and spent some part of my childhood in Angola

Embracing a new continent and culture, I quickly learned the art of adaptation and acceptance. Throughout those years, I discovered the profound truth in Mahatma Gandhi's words, "Be the change that you wish to see in the world." This powerful mantra has become my guiding principle, inspiring me to strive for self-improvement and be the best version of myself each and every day.

### EDUCATION AND TRAINING

**2021 - CURRENT** Moscow, Russia

**Bachelor's of Aerospace Engineering** Moscow Aviation Institute (National Research University)

**Address** Moscow, Russia, 125080, Moscow, Russia | **Website** <https://en.mai.ru/education/international-bachelor/english-medium-programs/spacecraft-engineering/>

**2020 - 2021** Moscow, Russia

**Pre-University Course** Moscow Aviation Institute (National Research University)

**Address** Moscow, Russia, 125080, Moscow, Russia | **Website** <https://en.mai.ru/education/pre-university/foundation-en/>

**2017 - 2019** Benguela, Angola

**Secondary School (10° 11° 12°)** Colégio de Benguela

**Address** Rua Sacadura Cabral 127 , Benguela, Angola | **Website** <http://colegiodebenguela.com/en/>

### LANGUAGE SKILLS

**MOTHER TONGUE(S):** Portuguese

**Other language(s):**

**English**

**Listening** C2

**Reading** C2

**Writing** C2

**Spoken production** C2

**Spoken interaction** C2

**Russian**

**Listening** A2

**Reading** A2

**Writing** A1

**Spoken production** A1

**Spoken interaction** A1

**Spanish**

**Listening** C1

**Reading** C2

**Writing** B2

**Spoken production** B2

**Spoken interaction** B2

## DIGITAL SKILLS

### PROGRAMMING & EMBEDDED SYSTEMS

C/C++, Python | STM32 | STM32CubeIDE | Arduino (C++) | PlatformIO | Git and Github | Visual Studio, Visual Studio Code

### ENGINEERING

Matlab/Simulink | SolidWorks, Fusion360, AutoCAD LT | EasyEDA, KiCAD | OpenRocket

### IT

Microsoft Office 365 | Cloud Storage | Operating Systems (Windows, Linux) | FTP, SSH, Antivirus, Firewalls, PuTTY | Virtual Machines (VMware, VirtualBox) | IT Troubleshooting

### CYBERSECURITY

Introduction to Cybersecurity | CTF Challenges (OSINT, Steganography, Pentest) | Hack the Box

### DESIGN

OBS Studio | Adobe Photoshop, Lightroom, Illustrator, Premiere Pro

## PUBLICATIONS

2021

### **MAI: "Priority-2030" Magazine Interview**

My Contribution:

I'm delighted to announce my first interview has been released on "Oblako" Magazine at the «MAI: "Priority 2030"» Edition in paper and digital formats.

I've shared my personal story on how the love for space first bloomed. As well some personal projects, Education at MAI, and finally some of my academical and professional ambitions.

Link <https://oblako.mai.ru/publications/item.php?ID=165714>

## CONFERENCES AND SEMINARS

28/06/2023 – 03/07/2023 Tula Oblast Region - Russia

### **"Engineers of the Future 2023" International Industrial Forum**

I recently had an amazing experience at the "Engineers of the future 2023" forum!

So many students and engineers took part of this 11 days event. At first I choose "Aerospace Engineering" Faculty organized by Roscosmos. But faced some issues due to language barrier. Nevertheless, with so many things to choose from I went for the "biotechnology" faculty. Although it's not my area of expertise, I'm passionate about electronics and programming. So, I took on the challenge of creating a prototype of a Medical Mechanical Ventilator in only about 4 days. Out of the three competing teams, our team emerged as the winners, clinching the 1st prize.

The recognition for our accomplishment extended beyond the forum, as my university's Press Center highlighted my achievement:

"As part of the educational program of the forum, Mayovites took part in the work of nine faculties out of 15 possible. Almeida Nascimento Danilo Augusto, a student of Institute No. 6 "Aerospace" of the MAI, won the first place at the Faculty of Biotechnology."

The "Engineers of the Future 2023" forum not only provided an enriching platform for engineering projects but also created opportunities for personal growth and connections. Engaging in sports activities and spending time with remarkable individuals, each with their unique stories, made the experience even more unforgettable.

Links <https://enfuture.ru/en/> | <https://mai.ru/press/news/detail.php?ID=174717> | <https://mai.ru/press/news/detail.php?ID=174492>

2020 – 2023 Portugal

### **Hack The Box Portugal - Host**

Hack The Box is an online Platform for Ethical Hackers to practice and improve their penetration testing skills, exchange ideas and methodology with other members.

Currently Hack The Box has different hosts for each country, that are responsible to perform monthly cyber-security meetups.

With that being said, Hack the Box Portugal is hosted by me. Where we learn form one another, mostly IT students and University professors that wish to pursuit and/or work on cyber-security join the meetups.

Link <https://www.meetup.com/Hack-The-Box-Meetup-Portugal/>

## PROJECTS

06/2022 – 07/2022

### ● **Concept Design of Cubesat for LEO Space Debris Detection**

During my second semester at the Moscow Aviation Institute (MAI), I had the incredible opportunity to work on an educational training group project that left an indelible mark on my academic journey. Our mission was to develop an in-depth concept design of a cubesat, specifically geared towards Low Earth Orbit (LEO) space debris detection—a crucial endeavor in ensuring the sustainability and safety of space exploration.

Under the expert guidance and mentorship of our esteemed Professor Ivan Rudoi, our team delved into the fascinating world of satellite technology, space debris monitoring, and innovative engineering solutions. Professor Rudoi's vast knowledge and unwavering support played a pivotal role in shaping our understanding of the subject matter and kept us focused on the project's goals.

Over the course of the project, we embraced the challenges with enthusiasm, dedicating countless hours to research, brainstorming, and meticulous planning. We explored various detection systems, sensor technologies, and communication methods to design a cubesat that could effectively track and analyze space debris, mitigating potential hazards for future space missions.

2020 – CURRENT

### ● **Model Rocket + Flight Telemetry Recorder**

Designed, engineered, and constructed a model rocket with an avionics computer, capturing flight telemetry and controlling parachute ejection. The rocket relies on fins for stability.

Link <https://github.com/ndanilo8/Active-Control-Model-Rocket>

2020 – CURRENT

### ● **Sounding Rockets Avionics**

Designed a custom Avionics Computer with advanced sensors for model rockets. Features MEKF-based GNC and PID control for precise trajectory tracking and maneuvering

Link <https://github.com/ndanilo8/Active-Control-Model-Rocket>

## MANAGEMENT AND LEADERSHIP SKILLS

### ● **Leader of Group at University**

As Group Representative for the English program at the 6th Faculty "Aerospace," I've honed communication, organization, and problem-solving skills. Recognized as "Best Leader of the Group" for two consecutive years so far.

## ORGANISATIONAL SKILLS

### ● **Founder of "Downhill Extreme Angola"**

In the heart of Angola, a hidden gem of extreme sports was waiting to be unveiled – Downhill Mountain Biking. As one of the few who knew and practiced this exhilarating sport, I decided to take action and make a difference. Thus, I founded "Downhill Extreme Angola" with a vision to introduce and promote the Downhill discipline of Mountain Biking across the country.

At Downhill Extreme Angola, our mission is clear: to create awareness and excitement about this thrilling sport that is rarely known among locals. We organize meets that bring together passionate riders, and we scout new locations that are perfect for the adrenaline rush of downhill biking.

One significant challenge we address is the limited access to proper equipment in Angola. With no national stores catering to this sport, many athletes face hurdles in pursuing their passion. Our organization takes initiative to help athletes acquire the necessary equipment, ensuring they have the tools they need to thrive in the sport they love.

Link <https://www.facebook.com/DownhillExtremeAngola>

## HOBBIES AND INTERESTS

### ● **Open Water Diver & Deep Diver Speciality**

The year 2018 marked the beginning of my enchanting underwater journey. My Open Water Course from SSI opened the door to this mesmerizing realm.

Eager to explore further, I undertook the Deep Diver specialty course, equipping me with the technical expertise and theoretical knowledge to venture to depths of up to approximately 45 meters.

**Links** [https://my.divessi.com/code/thickbox/ccard\\_db\\_query.php?ccard\\_uid=735187N6238863754377-PT](https://my.divessi.com/code/thickbox/ccard_db_query.php?ccard_uid=735187N6238863754377-PT) | [https://my.divessi.com/code/thickbox/ccard\\_db\\_query.php?ccard\\_uid=735189F5447552268152-CV](https://my.divessi.com/code/thickbox/ccard_db_query.php?ccard_uid=735189F5447552268152-CV)

### ● **Founder of "ADN Racing" e-Sports Team**

Lead and manage an e-Sports team focused on Endurance Sim Racing in rFactor2 and iRacing.

**Link** <https://www.facebook.com/ADNracingEsports>

## CREATIVE WORKS

### 2017 – CURRENT

### ● **Photographer**

I find joy in capturing and sharing the beauty of landscapes, allowing others to experience the emotions of the world through my photography.

**Links** [https://www.instagram.com/ndanilo\\_photography/](https://www.instagram.com/ndanilo_photography/) | <https://www.facebook.com/DaniloNascimentoPhotography> | <http://daniloonospace.com/photography.html>