



# Esma Betteka

## Personal info

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in esma-betteka

📍 Moscow, Russia  
remote/relocation

## Education

- **Aerospace engineering & rocket construction (Bachelor, Master in process)**  
Moscow Aviation Institute  
Sep 2018 — Aug 2025
- **Preparatory classe for Science & Techniques**  
Ecole Polytechnique  
Sep 2014 — Jul 2016

## Skills

- **Programming**  
C++, Python, Fortran, MATLAB, Mathcad
- **Modelling**  
Solid Edge, Catia, Fusion 360

## Languages

- **French & Arabic**  
bilingual / native
- **English**  
highly proficient
- **Russian**  
upper intermediate

## Summary

I'm an aerospace engineer with a strong passion for rocket construction and a growing interest in orbital calculations. I'm eager to dive deeper into the practical side of aerospace projects while also exploring opportunities in project management. I'm looking to join a team where I can contribute my skills, learn from others, and help push the boundaries of what's possible in aerospace engineering.

## Work Experience

- **Aerospace Engineer (research experience in Moscow Aviation Institute) 2021-2023**
  - ▶ Designed a space mission utilising passive gravitational manoeuvres to Europa, the second Galilean moon of Jupiter (Graduation project);
    - Employed Lambert's equation for two-body problem including in-depth analysis of the heliocentric phase of the mission.
    - Conducted structural analysis for propellant tank (both cylindrical and spherical shapes). In addition, evaluated tank shell strength calculations against internal pressure and the strength margin of the stiffener.
  - ▶ Conducted ballistic calculations to support space missions to the Moon and Mars;
  - ▶ Designed and manufactured unmanned aerial vehicles (UAVs);
    - Designed UAV parts in Catia then using a slicer and 3D printer manufactured it.
- **Event Coordinator and Middle East Adviser 2019-2023**
  - ▶ Speaker for the annual dinner of African military attachés;
  - ▶ Speaker for the African Day event hosted by the Embassy of Cameroon;
  - ▶ Served as the Middle East adviser for the international diplomacy club, AMICABILITY;
  - ▶ Planned and executed a cultural event at the UAE Embassy, successfully hosting over 100 participants;
  - ▶ Coordinated and facilitated meetings for Syrian diplomatic delegations, providing translation services as needed.
- **Digital Product Development Specialist in a logistic company FESCO 2022-2023**
  - ▶ Developing CRM system to FESCO's sales department, now used by around 1,000 employees to streamline sales processes;
  - ▶ Structuring and building a claims integrated system in CRM;
  - ▶ Developing the company's chat-bot library and logistic-related encyclopaedia;
  - ▶ Creating roadmaps and SOP products;
- **Head of regional (Moscow, Russia) Commercial Department at Jordan Aviation Airlines November 2023 - August 2024**
  - ▶ Led the development of new air routes between Russia and the Middle East, including organising regular flights from Moscow to Amman;
  - ▶ Managed charters from various cities to Jeddah for the pilgrimage season, successfully sending over 3,000 pilgrims to Hajj;
  - ▶ Created strategic tour packages to boost tourism and ensure consistent ticket sales;
- **Course Development Lead at Space Generation Advisory Council's Educational platform Space-Gen Academy**
  - ▶ Architecting a tailored educational program for our 25,000 members;
  - ▶ Enhancing and gamifying the anti harassment policy, making it more engaging for our members and employees;
  - ▶ Oversaw daily management and conducted work verification tasks to ensure operational efficiency;