

# Sergio Alejandro Rosales Vargas

STUDENT · M.Sc. SPACE ENGINEERING

Max Von Laue Straße 5, 28359 Bremen

☎ +49-163-8917040 | ✉ rosalessergius@gmail.com | 🌐 sergio-alejandro-rosales-vargas

*“Aim to the stars.”*

## POLARIS Raumflugzeuge GmbH Hiring Manager

March 18, 2025

ZUM PANREPEL 11  
28307 BREMEN

### Reference: Application for “Lead Avionics Engineer”

Dear Hiring Manager,

My name is Sergio Rosales, and I am writing to express my interest for the position of *Lead Avionics Engineer*. With my background in Space Engineering, hands-on experience in R&D, and involvement in diverse software development projects, I am confident that my skills are well suited for the position.

For starters my degree's master project involved the development of level C and C++ frameworks for Convolutional Neural Networks, experience that sharpened my programming skills. In addition to that, during my position in IMEMED, I led the electronics design team, working in embedded systems development for Bolivia's first ICU ventilator and portable X-ray machine, projects that involved solving complex technical challenges in real-world applications.

Additionally, as a member of the avionics team in the student initiative ASTRA e.V., I contributed to the design of a rocket that aims to reach the Kármán line. This experience gave me valuable insight into avionics systems, power management, and system-level trade-offs. My recent involvement in the thermal engineering team at ArianeGroup further deepened my understanding of aerospace design processes and reinforced my ability to work in multidisciplinary teams.

I share POLARIS Raumflugzeuge GmbH's commitment to innovation, efficiency, and technical excellence. This makes me eager to seize the opportunity of growing my leadership skills, improving my teamwork capabilities, expanding my professional knowledge, and most importantly, applying my agile traits.

In conclusion, I'm ready to start as a leader of the avionics team in the company bringing my technical and leadership skills. I appreciate your consideration and welcome the opportunity to discuss the position.

I look forward to your reply.

Sincerely,

**Sergio Alejandro Rosales Vargas**