

# Sergio Alejandro Rosales Vargas

STUDENT · M.Sc. SPACE ENGINEERING

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“Aim to the stars.”

## Rheinmetall Hiring Manager

March 18, 2025

BRÜGGEWEG 54  
28309 BREMEN

### Reference: Application for “Software Developer - AI Development”

Dear Hiring Manager,

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

Currently, I am completing my master thesis in the field of Space Engineering. My degree’s master involved the development of level C and C++ frameworks for Convolutional Neural Networks. In addition to that, during my position in IMEMED, I led the electronics design team, working in embedded development for Bolivia’s first ICU ventilator and portable X-ray machine, projects that involved solving complex technical challenges in real-world applications.

In addition, 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, interface management, and system-level trade-offs. My recent involvement in the thermal engineering team at ArianeGroup further deepened my understanding of aerospace development processes and reinforced my ability to work in multidisciplinary teams.

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

In conclusion, my goal is to learn and offer all my abilities and experience in return. I am thankful in advance for considering me for this opportunity.

With utter enthusiasm I look forward to your reply.

Sincerely,

**Sergio Alejandro Rosales Vargas**