

INSIGHTS FROM DR. ÉLCIO GERÔNIMO DE OLIVEIRA: A JOURNEY THROUGH AEROSPACE ENGINEERING AND ACADEMIA

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Received 25 May 2024 – Version 0.0 of the translation was completed on 29 May 2024.



NOTE: Version of the translation transcription. 0.0.

Dear friends, the interview transcription was done by machine and later reviewed. We are aware that it is imperfect. If you wish to collaborate with improvements, you are welcome to contact us at southbchem@gmail.com

ABSTRACT

Introduction: The interview with Élcio Gerônimo de Oliveira, conducted by Luís de Boni, explores various aspects of Élcio's career and contributions to aerospace engineering and research. The discussion spans his time in the Brazilian Air Force, his transition to academia, and his involvement in significant projects such as the 14-X hypersonic vehicle and the SARA re-entry satellite. **Aims:** The primary aim of the interview is to highlight Élcio's achievements, challenges, and insights gained from his extensive career in aerospace engineering and research. It also seeks to understand the impact of his work on both military and academic fields. **Methods:** The interview was conducted in a conversational format, allowing Élcio to elaborate on his experiences and provide detailed responses to the questions posed by Luís de Boni. The interview was recorded and later transcribed for publication in multiple formats. **Results:** Élcio detailed his career progression in the Brazilian Air Force, highlighting key roles such as researcher, head of the space systems division, and deputy director of the space directorate. He described significant projects, including the development of the VLS and VLM launch vehicles and the SARA re-entry satellite. His transition to academia included a professorship in Sweden, where he contributed to rocket science research. Élcio also discussed the successful test flight of the 14-X hypersonic vehicle. **Discussion:** The interview provided insights into the complexities and interdisciplinary nature of aerospace projects. Élcio emphasized the importance of continuous learning and adaptation and the need for international collaboration in research and development. The discussion also touched on the challenges of integrating military and academic environments and the potential applications of hypersonic technology beyond military uses. **Conclusion:** Élcio Gerônimo de Oliveira's career reflects a significant contribution to aerospace engineering and research, marked by notable projects and successful transitions between military and academic roles. His experiences underscore the importance of innovation, collaboration, and adaptability in advancing aerospace technologies. The interview serves as a valuable testament to the impact of dedicated professionals in this field.

Keywords: *Élcio Jerônimo de Oliveira, SARA re-entry satellite, Aerospace Engineering, Hypersonic Technology, Career Transition*