Samuel Hautequest Cardoso, Ph.D.

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SUMMARY/EXPERIENCE

Dr. Cardoso is a Civil Engineer with extensive international background in aviation, airport, pavement and materials engineering, safety, state safety program (SSP), safety management systems (SMS). Proven expertise in pavement design, project management, due diligence, design, compliance, research & development, master planning, pavement management systems (PMS), training, materials development, and more.

Previous experience as a Brazilian Air Force Engineer. He served on multiple industry boards and committees. Member of the Editorial Advisory Panel of the Proceedings of the Institution of Civil Engineers – Transport, UK, from 2012 to 2018 (two terms). Handling Editor and Reviewer of the TRR Editorial Board of the Transportation Research Record (TRR), The National Academies of Science-Engineering-Medicine. Multi-lingual in English, Spanish, and Portuguese.

Head of the Brazilian Air Force Infrastructure Central Laboratory (materials, soils, asphalt, cement, asphalt concrete, Portland cement concrete, topography, etc.). Oversaw field/lab investigation for Trindade Island, between Brazil and Africa for pavement runway design/construction.

Consultant for Tom Jobin Int'l Airport, Rio de Janeiro, Brazil, since 2014. Solved many pavement and aircraft/pavement interaction problems (friction, roughness, etc.), including a 4,000 m pre-stressed concrete Runway 10/28.

Former ICAO AGA (Aerodrome and Ground Aids). Application of ICAO SARPs in 15 countries and, indirectly, in 24 other countries, as AGA Secretary.

He worked in all South American countries, Honduras, Costa Rica, Dominican Republic, USA (Research Engineer at University of Maryland and Applied Research Associates – ARA), Antigua and Barbuda, Bahamas, Singapore, Thailand, Portugal, UK, Angola, Marshall Islands etc. Currently, he is involved in pavement projects (flexible, rigid and prestressed pavement design, destructive and NDT evaluation, monitoring, etc.) in Rio de Janeiro, Dominican Republic and Panama.

EDUCATION

Graduate, High Staff College, Air University, Brazil (1992)
Ph.D. in Civil Engineering, University of Maryland, College Park, MD (1987)
M.Sc. in Civil Engineering, COPPE/UFRJ, Rio de Janeiro, Brazil (1982)
Graduate, Occupational/Safety Engineering, FTESM University, Rio de Janeiro, Brazil (1976)
Engineering Officer's School, Brazilian Air Force, Air University, Brazil (1976)
BS in Civil Engineering, FTESM University, Rio de Janeiro, Brazil (1975)
BS in Agronomy (Engineering), Rural Fed. University of Rio de Janeiro, Brazil (1970)

ACADEMIC & RESEARCH POSITIONS

Visiting Professor, National University of Engineering, Peru (1999-2008)
Visiting Professor, Aeronautics Institute of Technology, Brazil (1991-1996)
Visiting Professor, Civil Eng. Dept., University of Sao Paulo, Brazil (1991-1995)
Visiting Professor, COPPE/UFRJ – Fed. Univ., Brazil (1993)

Head of Aeronautics Infrastructure Dept./Assoc. Prof., Aeronautics Institute of Technology, (Aerospace Technical Center), Brazil (1989-1991)
Head of Geotechnical Div./Assoc. Prof., Aeronautics Institute of Technology, Brazil (1988-1989)
Assistant Professor, Souza Marques University, Brazil (1979–1982)

PROFESSIONAL AFFILIATIONS
Member of the TRR Editorial Board (The National Academies of Science-Engineering-Medicine, USA)
Member/Editorial Advisory Panel, Institution of Civil Engineers/Transport/United Kingdom, 2012-2018 (Two-Terms)
Friend/AV070 Aircraft/Airport Compatibility Committee, TRB, USA
Friend/AKP30 Committee on Flexible Pavement Design, TRB, USA
Member/D-04 & E-17 Committee Member, ASTM, USA
Member/Airfield Pavement Committee Member, ASCE/USA (Currently, friend)
Founder, as ICAO AGA Officer, Latin American and Caribbean Association of Airfield Pavements (ALACPA)
Founder, as ICAO AGA Officer, CAR/SAM Regional Bird/Wildlife Hazard Prevention Committee (CARSAMPAF)
Past President (2x), Brazilian Paving Association (ABPv) – six years
Former Executive Secretary, CAR/SAM Airport/Ground Aids/Airport Operations Subgroup, ICAO

PUBLICATIONS & PRESENTATIONS
Over 120 papers, 500 research/technical reports, 120 invited talks.

Rio de Janeiro, 04 November 2025

Dr. Samuel Hautequest Cardoso, Ph.D.