



Academic Personnel Short CV

University:	Frederick University
Surname:	Serghides
Name:	Varnavas
Rank/Position:	Professor
School:	Engineering
Department:	Mechanical Engineering
Scientific Domain:	Aerospace Vehicle Design

Academic qualifications				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD in Aerospace Vehicle Design	1987	Cranfield University, United Kingdom	Aerospace Vehicle Design	Design Synthesis and Optimisation for Advanced Canard-Delta Combat Aircraft
MSc in Aerospace Vehicle Design	1985	Cranfield University, United Kingdom	Aerospace Vehicle Design	<i>Project:</i> T-84, Basic Military Training Aircraft Design <i>Research:</i> Development of a Reliability and Maintainability Prediction Methodology for the Aircraft Conceptual Design Process
BSc (Honours) in Aeronautical Engineering	1984	University of Manchester, United Kingdom	Honours School of Aeronautical Engineering	Advanced Technology Ejection Seat Design for Combat Aircraft
HTI Diploma in Mechanical Engineering	1979	Higher Technical Institute, Cyprus	Mechanical Engineering	Turbojet Engines

Employment history in Academic Institutions/Research Centers			
Period of employment	Employer	Location	Position

From	To			
10/2012	To Date	Frederick University, Mechanical Engineering	Nicosia, Cyprus	Professor of Aerospace Vehicle Design
04/1991	09/2012	Imperial College London, Department of Aeronautics / British Aerospace	London, United Kingdom	Associate Professor of Aerospace Vehicle Design
10/1988	03/1991	Hellenic Aerospace Industry Ltd., Research and Development Department	Tanagra, Greece	Aircraft Design Projects Group Leader

Key refereed journal papers, monographs, books, conference publications etc.						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2014	The Potential of Seaplanes as Future Large Airliners	Levis, E	Royal Aeronautical Society (RAeS), Advanced Aero Concepts, Design and Operations Conference, Bristol, UK	1	1-12
2	2012	Conceptual and Preliminary Design for a HALE UAV: Process, Tools, and Design Methodologies applied to a High Altitude Long Endurance Unmanned Aerial Vehicle	Domenico Sammartano, Sergio Chiesa	Book, Lambert Academic Publishing	1	1-232
3	2009	Real-Time Trajectory Generation for Aircraft Avoidance Maneuvers	Patel, R., Goulart, P.	American Institute of Aeronautics and Astronautics (AIAA), Guidance, Navigation and Control Conference, Chicago, USA	1	1-13
4	2007	Initial Sizing and Reentry Trajectory Design Methodologies for Dual-Mode Propulsion Reusable Aerospace Vehicles	Garcia Tormo, V	Journal of Spacecraft and Rockets, American Institute of Aeronautics and Astronautics (AIAA)	vol.44 no.5	1038 – 1050

5	2006	A Methodology for the Assessment of Unit Cost Drivers for Commercial Aircraft	Tirovolis, N.L.	The Aeronautical Journal, Royal Aeronautical Society (RAeS)	vol. 110, no. 1105	173-184
6	2005	Unit Cost Estimation Methodology for Commercial Aircraft	Tirovolis, N.L.	Journal of Aircraft, American Institute of Aeronautics and Astronautics (AIAA)	vol.42 no.6	1377 – 1386
7	2005	Airframe-Propulsion Integration Methodology for Waverider-Derived Hypersonic Cruise Aircraft Design Concepts	Javaid, K.H.	Journal of Spacecraft and Rockets, American Institute of Aeronautics and Astronautics (AIAA)	vol.42 no.4	663-671
8	2005	Thrust Matching Requirements for the Conceptual Design of Hypersonic Waverider Vehicles	Javaid, K.H.	Journal of Aircraft, American Institute of Aeronautics and Astronautics (AIAA)	vol.42 no.4	1055 - 1064
9	1988	A Reliability and Maintainability Prediction Methodology for the Conceptual Aircraft Design Process	Fielding, J.P	Reliability Engineering and System Safety Journal	vol.20 no.1	19-34.
10	1987	A Maintainability Prediction Methodology for Use in Aircraft Design	Fielding, J.P	International Journal of Quality and Reliability Management	vol.4 no.1	9-18.

Awards / International Recognition			
Ref. Number	Date	Title	Awarded by:
1	2016	Fellow of the Royal Aeronautical Society (FRAeS)	Royal Aeronautical Society (RAeS), UK
2	2014	Honorary Senior Research Fellow, Aeronautics	Imperial College, UK
3	2012	Visiting Professor of Aerospace Vehicle Design	Imperial College, UK
4	2005 - to date	PhD and MSc External Examiner for Aerospace Vehicle Design	Cranfield University, UK
5	2010-2014	External Examiner for the Pre-Master's Course in Engineering	Cranfield University, UK
6	2019	Adjunct Professor, USRL	The Cyprus Institute

7	2018	Member of the Cyprus National COSPAR Committee	The International Science Council on Space Research
8	2016	Chief of Aeronautics, CSEO	Cyprus Space Exploration Organization (CSEO)
9	2008 – 2013	Member of the Scientific Advisory Board, CERTH	Centre for Research & Technology Hellas (CERTH)
10	2012	Scientific Theme Leader and Organiser (Innovative Aircraft Design)	2012 Green Aviation International Conference, London UK
11	2011	Scientific Theme Leader and Organiser (Innovative Aircraft Design)	2011 Green Aviation International Conference, London UK
12	1991	British Aerospace Lectureship in Aerospace Vehicle Design at Imperial College	British Aerospace (BAe) Headquarters
13	1989	Senior Member of the American Institute of Aeronautics and Astronautics (SMAIAA)	American Institute of Aeronautics and Astronautics (AIAA)
14	1988	Post-Doctoral Research Fellowship at Cranfield University	Royal Aircraft Establishment (RAE) / UK Ministry of Defence
15	1985-1987	Doctoral Research Fellowship at Cranfield University	Royal Aircraft Establishment (RAE) / UK Ministry of Defence
16	1984	Overseas Research Students (ORS) Award	UK ORS Awards Scheme
17	1981-1984	Scholarship at the University of Manchester	Cyprus Government
18	1976-1979	Scholarship at the Higher Technical Institute	Cyprus Airways