MAHDI AL-HUSSEINI, P.E.

mahdial-husseini.com

mahdi.alhusseini.mil@army.mil • 1003 Homestead Way, Enterprise, AL 36330 • (404) 771-3315

Stanford University	PhD, Aeronautics and Astronautics	March 202
	Masters, Aeronautics and Astronautics 3.90/4.0	
	Masters, Business Administration (Deferred Admit)	
The Georgia Institute of Technology	Masters, Computer Science: Robotics 4.0/4.0	July 202
	Bachelor of Science, Biomedical Engineering 3.79/4.0	May 201
	Bachelor of Science, Public Policy 3.79/4.0	May 201
EXPERIENCE Jnited States Army Active Duty – Aeromed	ical Evacuations Officer (67J); Wheeler AAF, HI	July 2018 – Presen
	ally employ medical aircraft, personnel, and equipment to support the	
Vita Inclinata – Board Observer, Control Eng	· · · · · ·	0 – September 2023
 Support the design, development, and fie 	ld integration of various Load Stability System (LSS) products.	
Anti-Rotational Technologies Inc. – CEO, Fo	-	8 – September 2020
	eloping, and testing SALUS (Stabilizing Aerial Loads Utility System), and	
unobtrusive reaction-wheel stabilization a	assembly designed to support the medical evacuation mission. Acquir	ed by Vita Inclinata
Emory Center for Mathematics and Compu	ting in Medicine (E(CM) ²) – <i>Researcher;</i> Atlanta, GA August 20	17 – December 201
	gical procedures to determine blood-flow turbulence in relevant blood	
	U	
National Aeronautics and Space Administra	ation (NASA) Ames- Intern; Mountain View, CA Ju	ine 2017 – July 201
 Developed a database with an interactive 	front-end interface designed to aggregate data from a network of er	nbedded sensors.
PATENTS		
• 11535496 [December 27, 2022] Device fo		
	etic device for an ejector-spring static line reserve parachute	
	Moment Gyroscope Hoist Stabilization System, Method, and Apparat . Processing, and Output of Flight Information Method, System, and A	
 Design Patents: D919583, D942534, D103 		ipparatus
-	7, 20230117935, 20+ applications, including (AMCs 2-12) via the Army	/ Research Lab
RESEARCH AGREEMENTS		
ARL-Stanford CRADA 20-017-002 – Technico	-	Fall 2023
	ework for the Dynamic Resource Allocation of Heterogeneous Medica	
USAARL-SALUS CRADA 20-069 – Principal In	-	Fall 2019
 RDT&E of an Anti-Rotation Stabilizing Aeri 	ial Loads Utility System (SALUS) Device	
ACADEMIC PAPERS (all first author)		
 Journal of Aerospace Information Systems Human-Autonomous Teaming 	: Hierarchical Framework for Optimizing Wildfire Surveillance and Su	opression using Fall 202
_	e Exchange Points to Enhance Aeromedical Evacuation	Fall 202
	trategies for Medical Evacuation in the Indo-Pacific	Spring 202
	dinate Aerial and Maritime Medical Evacuation Platforms	Spring 202
• Aura: An Intelligent System for the Real-Ti	me Evaluation of Flight Maneuver Performance (peer-review)	
Oculometric Assessment of Human Risk Fa	actors in Military Aviation (peer-review)	
 Semi-Decentralized Control of Multiagent 	Systems in Partially Restricted Communication Environments (in prep	paration)
ADDITIONAL INFORMATION		
	omation Letters, Journal of Aerospace Information Systems	
	rical (2023), USPA B License (2022), FAA CML Pilot License + Instrume	

Certifications: Professional Engineer – Electrical (2023), USPA B License (2022), FAA CML Pilot License + Instrument [ASEL/S, AMEL/S, RW], FAA Certified Flight Instructor [ASE], USPTO Licensed Patent Agent (2020), FCC Amateur Extra Radio License (2020) **Military Education**: Military Free Fall Basic, Airborne School, Army Medical Basic Office Leadership Course, SERE-C, Army Combatives I, Initial Entry Rotary Wing Training, Helicopter Over-Water Survival Training, Aviation/Army Medical Captains Career Course