Name	Dr. Aldin Justin Sundararaj							Designation			
Date of Joining	03/05/2010						As	Assistant Professor (S.G)			
Research Areas	Primary: Ignition, energetic propellants, combustion, shock waves, detonation and heat transfer.						Email aldinjustin@karunya.edu Contact:9047653317				
Education	Ph.D.	Ph.D. Propulsion Karunya In Sciences.					titute of Technology and 2018				
	P.G	P.G Engineering Design Karunya Univ				ersity. 2010			2010		
	U.G	U.G Mechanical Engineering Dr. Babasaheb A Marathwada Uni									
Other Experience	Project consultant, Aerospace Department, IIT Madras from Nov. 2023 to Feb. 2024.										
Total Experience	Teaching & Research					Industry					
(Years)	14						01				
Area of Specialization	Propulsion Shock wave										
Subjects Teaching	Under Graduate (Only Core mentioned) Post Graduate (Only Core mentioned)								ned)		
	 ❖ Aircraft Propulsion ❖ Rocket Propulsion ❖ Cryogenic Propulsion ❖ Aerospace Propulsion 							nnology			
No. of Papers Published	Scopus		20+	We	b of	Science	5	UGC / Ot	hers	3	
No. of Papers Presented in Conferences	International: 14+ National: 07			No. of FDPs attended 05+					No. of Guest Lectures Delivered 06+		
Patents	 Deflagration to detonation supersonic igniter, 2019 Indian Patent No 201941026005. Supersonic nozzle extension for optimum operation with thrust augmentation, 2023, Indian Patent No: 202341087944. 										
Research Guidance	Ph.D.: 05 PG Level: (5				U	G Level: 50+		
Grants fetched from government	Aeronautics Research & Development Board, DRDO			of a	Flame Acceleration Studies of Hydrocarbon Fuels using a Deflagration-To-Detonation Transition Tube			INI	R 90.34 Lakhs		

organization	Defence Researd Development La DRDL		Investigation of ignition INR 9,88 La delay of hydrocarbon fuel samples			
	Aeronautics Re Development Bo		Investigation of ignition delay of Isrosene using shock tube as a tool	INR 9,28 Lakhs		
	BrahMos Aeros VSSC, LPSC, I ISRO HQ, DRI AR&DB	PRC,	4 th National Symposium on Shock Waves	INR 3,52,994/-		
	Science and Engineering Res Board, SERB	search	Attended a short term course on "Atomization and Spray" TU Darmstadt, Germany	INR 1,27,039/-		
	Tamil Nadu State Council for Science and Technology		Experimental investigation to study the effect of blockage ratio and length/diameter ratio on a deflagration flame tube	INR 7500/-		
Board of Studies	Member of Board of Studies for 3 Institutions in Tamil Nadu and Kerala.					
Professional Memberships	 ❖ Institute of Engineers- India M-1612705 ❖ Life member of Society of Shock Wave Research ❖ Life member of Combustion Institute –India LMC-1313 ❖ Life member of Indian Cryogenic Council–India LM-843 					
Awards / Honours	 Achievers Award - Karunya University in the year 2022. Science and Engineering Research Board Travel grant – Government of India to attend a short-term course on "Atomization and Spray", Germany- Feb -2020. India – Israel fellowship - Karunya Institute of Technology and Sciences, Jan-2020. Young Achiever Award – Institution of Engineers-India in the year 2019. Young Engineer Award – Institution of Engineers-India in the year 2018 Best Poster Award - Karunya University in the year 2017 Achievers Award - Karunya University in the year 2016 Gold Medal for M-Tech - Karunya University in the year 2010 					
Consultancy work	❖ Defenc	e Research Deve	elopment Laboratory, DRDO			

Other Responsibilities	Coordinator for 1. IQAC: Internal Quality Assurance cell				
	2. NAAC: National Assessment and Accreditation Council				
	3. NBA: National Board Accreditation				
	4. ARIIA: Atal ranking of Institution on Innovation Achievement				
	5. NIRF: National Institution Ranking Framework6. AQAR: Annual Quality Assurance Report				
	7. QS-I Gauge				
	8. In-charge for Propulsion and High Enthalpy lab				
	9. Drone Technology for Agriculture Mission-Leader 10. Association / Mindkraft 11. Alumni and Parents Interaction				
	12. Department Reports				