

Nakul Garg

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Research Interests	Mobile Computing, Wireless Networking, Low-power sensing, Underwater IoT	
Education	Ph.D. , Computer Science University of Maryland, College Park	2019–present
	Bachelor of Technology , ECE Guru Gobind Singh Indraprastha University	2014–2018
Publications	Owlet: Enabling Spatial Information in Ubiquitous Acoustic devices Nakul Garg* , Yang Bai*, Nirupam Roy ACM Mobisys 2021	
	Demo: Microstructure-guided Spatial Sensing for Low-power IoT Nakul Garg* , Yang Bai*, Nirupam Roy ACM Mobisys 2021	
	Enabling Self-defense in Small Drones Nakul Garg , Nirupam Roy ACM HotMobile 2020	
	Poster: Acoustic Sensing for Detecting Projectile Attacks on Small Drones Nakul Garg , Nirupam Roy ACM HotMobile 2020	
	Evaluating LED-Camera Communication for Drones Bhawana Chhagani, Abhay Sheel Anand, Nakul Garg , Ashwin Ashok ACM LioT Workshop Mobicom 2020	
	Poster: DRIZY- Collaborative Driver Assistance Over Wireless Networks Nakul Garg , Ishani Janveja, Divyansh Malhotra, Chetan Chawla, Pulkit Gupta, Harshil Bansal, Aakanksha Chowdhery, Prerana Mukherjee, Brejesh Lall ACM MobiCom 2017	
Experience	Research Intern Computer Science Department, IIT Delhi <i>Advised by</i> :, Dr. Rijurekha Sen	Sept. 2018—July 2019
	Technical Advisor Celestini Project India, Marconi Society, Google, IIT Delhi <i>Led by</i> :, Dr. Aakanksha Chowdhery (Google AI) and Dr. Brejesh Lall (IIT Delhi)	May 2018—Sept. 2018
	Research Intern Celestini Project India, Marconi Society, Google, IIT Delhi <i>Led by</i> :, Dr. Aakanksha Chowdhery (Google AI) and Dr. Brejesh Lall (IIT Delhi)	Jun. 2017—Sept. 2017

Teaching	CMSC715 Wireless and Mobile Systems for the IoT, Fall 2021 Instructor: Prof. Nirupam Roy	
	CMSC420 Advanced Data Structures, Spring 2021 Instructor: Prof. David Mount	
	CMSC818W Wireless and Mobile Systems for the IoT, Fall 2020 Instructor: Prof. Nirupam Roy	
	CMSC417 Computer Networks, Spring 2020 Instructor: Prof. Nirupam Roy	
	CMSC420 Advanced Data Structures, Fall 2019 Instructor: Prof. Jason Filippou	
Awards and Scholarships	• Best demo award MobiSys 2021	2021
	• University of Maryland CS Summer Research Fellowship	2021
	• Travel grant HotMobile 2020, ACM SIGMOBILE	2020
	• University of Maryland Graduate School Dean's Fellowship	2019
	• Outstanding Student Volunteer Award by IEEE Delhi Section.	2018
	• Winner of World Food India Hackathon. Awarded by President of India.	2017
	• Winner of Celestini Project India 2017, IIT Delhi & Marconi Society.	2017
	• Travel grant Mobicom 2017, NSF, ACM SIGMOBILE	2017
	• 1 st in eYantra - National Robotics Competition, IIT Bombay	2017
	• 2 nd in eYantra - National Robotics Competition, IIT Bombay	2016
	• 1 st in Robotron TechMarathon, DDUC, Delhi University	2014
	• Among top 6 in National CBSE Science Exhibition	2013
	• 4 th in International Quanta, CMS School, Lucknow	2013
	• 1 st in Regional level CBSE Science Exhibition	2012
	• 1 st in Annual School Science Exhibition	2011
	• 1 st in Annual School Science Exhibition	2010
	• 2 nd in Annual School Science Exhibition	2009
Media Coverage	• DopplerDodge: The Economist, Robotics Industry News, ...	
	• Aerogram: Times of India, Hindustan Times, ...	
Activities Services	• Mentor at Bitcamp Research Trail 2021. An initiative to engage BIPOC students in research.	
	• President of the IEEE student chapter at BVP in the academic year 2017-18.	
	• Chairperson of the Robotics and Automation Society. Conducted 20 workshops in the academic year 2016-17.	