

Nakul Garg

CONTACT INFORMATION	A-36, Ashoka Encalve Peeragarhi New Delhi, 110087 INDIA	Contact : +91 8800 565859 e-mail id : nakulg.cstaff@iitd.ac.in git : https://github.com/Nakul22 website : https://sites.google.com/view/nakulgarg/
RESEARCH INTERESTS	Mobile Computing, Embedded Systems, Robotics, Image Processing, IOT, Visible Light Communication	
EDUCATION	I.P.U. , New Delhi, India B.Tech. in Electronics and Communication Engineering, 70% S.M.S. , New Delhi, India 12 th C.B.S.E, <i>CBSE 90%</i> 10 th C.B.S.E, <i>CBSE 82%</i>	Jul. 2014–May 2018 Jul. 2014 Jul. 2012
INTERNSHIPS AND INDUSTRY EXPERIENCE	Research Fellow IIT Delhi <i>Advised by</i> :, Dr. Rijurekha Sen (IIT Delhi) and Dr. Siddharth Joshi (Notre Dame) 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) Project Intern Celestini Project India, Marconi Society, Google, IIT Delhi <i>Led by</i> :, Dr. Aakanksha Chowdhery (Google AI) and Dr. Brejesh Lall (IIT Delhi) Technical Executive Prismart Productions, New Delhi Trainee Internet of Things, Texas Instruments, India Trainee Embedded Systems, IQB Solutions, Delhi	Sept. 2018—Present May. 2018—Sept. 2018 Jun. 2017—Sept. 2017 Aug. 2016—Jul. 2017 Aug. 2016—Sept. 2016 Sept. 2015—May 2016
RESEARCH PUBLICATIONS AND PATENTS	<ol style="list-style-type: none">1. N. Garg, I. Janveja, D. Malhotra, C. Chawla, P. Gupta, H. Bansal, A. Chowdhery, P. Mukherjee, and Brejesh Lall, “DRIZY- An IOT based Driver Assistance System,” submitted to ACM/IEEE International Conference on Internet-of-Things Design and Implementation 2018.2. N. Garg, I. Janveja, D. Malhotra, C. Chawla, P. Gupta, H. Bansal, A. Chowdhery, P. Mukherjee, and Brejesh Lall. “DRIZY—Collaborative Driver Assistance Over Wireless Networks,” ACM MobiCom Poster, Utah, USA, 2017.3. N. Garg, J.Parikh. “Wireless transceiver design for visible light communication,” ICICI, India, 2017.4. I. Janveja, N. Garg, C. Chawla, J.Parikh. “Aquacom: Underwater Visible Light Communication,” IndiaCom, India, 2018. (accepted)5. N. Garg “Aerial Surveillance Quadcopter” 2016. Patented at <i>Intellectual Property India</i>.	

AWARDS	<ul style="list-style-type: none"> • Outstanding Student Volunteer Award by IEEE Delhi Section. 2018 • First position at EV Hackathon, India - Australia joint initiative. 2018 • Winner of World Food India Hackathon. Awarded by President of India. 2017 • Winner of Celstini Project India 2017,IIT Delhi Marconi Society. Sponsored by Google.(URL: www.celestiniprojectindia.com) 2017 • Travel grants: NSF for Mobicom 2017, ACM SIGMOBILE 2017 • All India 1st in eYantra Robotics Competition, IIT Bombay 2017 • All India 2nd in eYantra Robotics Competition, IIT Bombay 2016 • Ranked 44 in IEEE XTreme Hackathon 2016 • 1st in Robotron TechMarathon, DDUC, Delhi University 2015 • Among top 6 in National CBSE Science Exhibition 2013 • 4th in International Quanta, CMS School, Lucknow 2013 • 1st in Regional level CBSE Science Exhibition 2012 • 1st in Annual School Science Exhibition 2011 • 1st in Annual School Science Exhibition 2010 • 2nd in Annual School Science Exhibition 2009
LEADERSHIP EXPERIENCE	<ul style="list-style-type: none"> • Led a team of 200 students to organize the biggest technical hackathon in Delhi, India. 2018 • Chair of BVP IEEE Student Branch July 2017 – Present • Vice–Chair of Robotics Society, BVCOE 2016 – 2017 • Head Event–Manager, Fervour - Technical Fest of college. 2017 • Conducted more than 80 workshops accross India to teach programming concepts on Arduino/Raspberry, Image Processing and Project Management. • Conducted seminars on STEM Education in Delhi schools.
TECHNICAL PROJECTS	<ul style="list-style-type: none"> • "Near Sensor ML" Leveraging convolution of CNN in analog domain. 2018 • "PlugFree" Autonomous charging of Drones. (Sponsored by GSU, USA) 2018 • "Augur" Long-Range V2V Communication with Smartphone Camera 2018 • "DRIZY" Collaborative Driver Assistance Over Wireless Networks 2017 • Li-Fi (Data transfer through light) Demonstration 2017 • "PUSHPAK" Aerial Surveillance Quadcopter with Rover 2016 • Touch–Screen Based Home Automation 2016 • IOT based Temperature Logger with Remote Access 2016 • FireBird V Robot – Mars Rover Navigation and 3D Modelling 2016 • Raspberry pi-3 based Personal Cloud Storage 2015 • Anti Car Theft System with SMS alert application 2014 • Zig–Bee based Swarm Robotics 2014 • Automatic Rubiks Cube Solver 2014 • Wireless Odometer 2012
TECHNICAL SKILLS	<ul style="list-style-type: none"> • C/C++, Python, Matlab, Embedded C • Deep Learning, Computer Vision, Image Processing • Raspberry Pi, Arduino, 8051, Atmel–AVR, Texas–MPU • Pixihaux,APM 2.6/8, KK2 Flight Controllers