

Nakul Garg

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| CONTACT INFORMATION | A-36, Ashoka Encalve Peeragarhi New Delhi, 110087 INDIA | Contact : +91 8800 565859 e-mail id : nakulgarg.2208@gmail.com git : https://github.com/Nakul22 website : https://sites.google.com/view/nakulgarg/ |
| EDUCATION | I.P.U. , New Delhi, India B.Tech. in ECE, 70%, Converted GPA 4.0 S.M.S. , New Delhi, India 12 th C.B.S.E, 90% 10 th C.B.S.E, 82% | Aug. 2014–May 2018 Jul. 2014 Jul. 2012 |
| SELECTED PUBLICATIONS | N. Garg , A. Anand, B. Chagglani, A. Ashok, “Visible Light Communication in Drones,” (in submission), 2019. 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,” (in submission), 2018. I. Janveja, N. Garg , C. Chawla, J.Parikh. “Aquacomm: Underwater Visible Light Communication,” IndiaCom, India, 2018. 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. N. Garg , J.Parikh. “Wireless transceiver design for visible light communication,” ICICI, India, 2017. | |
| FILED PATENTS | N. Garg “Advanced IoT based Home Automation System without Rewiring”, 2016. Intellectual Property India Serial No. 201711020040 | |
| EXPERIENCE | Research Fellow CSE Department, 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 Robotime Robotics Lab (STEM in schools) Trainee Embedded Systems, IQB Solutions, Delhi | Sept. 2018—Present May. 2018—Sept. 2018 Jun. 2017—Sept. 2017 Aug. 2016—Jul. 2017 Sept. 2015—May 2016 |
| POSITIONS OF RESPONSIBILITY | Chairperson BVP IEEE Student Branch • Led a team of 200 students to organize one of the biggest technical hackathon in Delhi, India. Vice–Chair of Robotics Society, BVCOE • Conducted workshops across India to teach programming concepts on Arduino/Raspberry, Image Processing and Project Management to 200+ students. Head Event–Manager , Fervour - Technical Fest of college. • Organized 17 technical events in campus with an outreach of 1000+ students in India. | 2017 - 18 2016 - 17 2017 |

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| AWARDS AND SCHOLARSHIPS | • 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 |
| | • 1 st in eYantra - National Robotics Competition, IIT Bombay | 2017 |
| | • 2 nd in eYantra - National Robotics Competition, IIT Bombay | 2016 |
| | • Ranked 44 in IEEE XTreme Hackathon | 2015 |
| | • 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 |
| TECHNICAL PROJECTS | • "Near Sensor ML" Reducing latency by bringing ML at edge. | 2018 |
| | • "PlugFree" Autonomous charging of Drones. (Sponsored by GSU, USA) | 2018 |
| | • "Augur" Visible Light Communication using 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 |
| RESEARCH INTERESTS | Visible Light Communication, Mobile Computing, Robotics, Sensing, HCI | |
| SKILLS AND TOOLS | Languages : C/C++, Python, MATLAB, OpenCV, \LaTeX , Verilog Technologies : Arduino, Raspberry Pi, Deep Learning, Computer Vision | |
| SOCIETY MEMBERSHIPS | Institute of Electrical and Electronics Engineers (IEEE) Association for Computing Machinery (ACM) | |