Nakul Garg

CONTACT A-36, Ashoka Encalve Contact: +91 8800 565859
INFORMATION Peeragarhi e-mail id: nakulgarg.2208@gmail.com

Peeragarhi e-mail id : nakulgarg.2208@gmail.com New Delhi, 110087 git : https://github.com/Nakul22

INDIA website: https://sites.google.com/view/nakulgarg/

RESEARCH Robotics, Image Processing, Internet of Things, Visible Light Communication Interests

EDUCATION B.V.C.O.E., New Delhi, India Jul. 2014–May 2018

B.Tech. in Electronics and Communication Engineering, 70%

S.M.S., New Delhi, India

12th C.B.S.E, *CBSE 90%*10th C.B.S.E, *CBSE 82%*Jul. 2014

Jul. 2012

Internships and **Technical Advisor** May. 2018—Present

INDUSTRY Celestini Project India, Marconi Society, Google, IIT Delhi

EXPERIENCE Led by :, Dr. Aakanksha Chowdhery (Google Brain) and Prof. Brejesh Lall (IIT Delhi)

Project Intern

Jun. 2017—Sept. 2017

Celestini Project India, Marconi Society, Google, IIT Delhi

Led by :, Dr. Aakanksha Chowdhery (Google Brain) and Prof. Brejesh Lall (IIT Delhi)

Technical Executive

Aug. 2016—Jul. 2017

Prismart Productions, New Delhi

Trainee Aug. 2016—Sept. 2016

Internet of Things, Texas Instruments, India

Trainee Sept. 2015—May 2016

Embedded Systems, IQB Solutions, Delhi

RESEARCH
PUBLICATIONS
AND PATENTS

- 1. **N. Garg** et al. , annonymous submission to an International ACM Conference 2018. (Under Review)
- 2. 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.
- 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.
- 5. I. Janveja, **N. Garg**, C. Chawla, J.Parikh. "Aquacomm: Underwater Visible Light Communication," IndiaCom, India, 2018. (accepted)
- 6. **N. Garg** "Aerial Surveillance Quadcopter" 2016. Patented at *Intellectual Property India*.

Outstanding Student Volunteer Award by IEEE Delhi Section. First position at EV Hackathon, India - Australia joint initiative. Winner of World Food India Hackathon. Awarded by President of India. Winner of Celstini Project India 2017,IIT Delhi Marconi Society. Sponsored by Google. (URL: www.celestiniprojectindia.com) Travel grants: NSF for Mobicom 2017, ACM SIGMOBILE All India 1st in eYantra Robotics Competition, IIT Bombay All India 2nd in eYantra Robotics Competition, IIT Bombay Ranked 44 in IEEE XTreme Hackathon 1st in Robotron TechMarathon, DDUC, Delhi University Among top 6 in National CBSE Science Exhibition 1st in Regional level CBSE Science Exhibition 1st in Annual School Science Exhibition 2012 1st in Annual School Science Exhibition 2014 1st in Annual School Science Exhibition 2015 1st in Annual School Science Exhibition 2016 2nd in Annual School Science Exhibition 2017 LEADERSHIP EXPERIENCE Led a team of 200 students to organize the biggest technical hackathon in Delhi, India. Chair of BVP IEEE Student Branch Vice—Chair of Robotics Society, BVCOE Chair of Robotics Society, BVCOE 1016 Chair of Robotics Society, BVCOE 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.
 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 2016 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 2011 1st in Annual School Science Exhibition 2011 1st in Annual School Science Exhibition 2011 1st in Annual School Science Exhibition 2010 2nd in Annual School Science Exhibition 2010 2nd in Annual School Science Exhibition 2019 4nd in Annual School Science Exhibition 2019 2nd in Annual School Science Exhibition 2019<!--</td-->
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PROJECTS "Augur" Long-Range V2V Communication with Smartphone Comerce 2019
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• "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
 Anti Car Theft System with SMS alert application Zig-Bee based Swarm Robotics
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• Zig-Bee based Swarm Robotics 2014

- TECHNICAL SKILLS $\mathbf{C}/\mathbf{C}++$, \mathbf{Python} , Matlab, Embedded C
 - Computer Vision, Image Processing
 - Raspberry Pi, Arduino, 8051, Atmel-AVR, Texas-MPU
 - Pixihaux, APM 2.6/8, KK2 Flight Controllers