

# Nakul Garg

CONTACT INFORMATION	A-36, Ashoka Encalve Peeragarhi New Delhi, 110087 INDIA	Contact : +91 8800 565859 e-mail id : <a href="mailto:nakulgarg.2208@gmail.com">nakulgarg.2208@gmail.com</a> git : <a href="https://github.com/Nakul22">https://github.com/Nakul22</a> website : <a href="https://sites.google.com/view/nakulgarg/">https://sites.google.com/view/nakulgarg/</a>
RESEARCH INTERESTS	Robotics, Image Processing, Internet of Things, Visible Light Communication	
EDUCATION	<b>B.V.C.O.E.</b> , New Delhi, India B.Tech. in Electronics and Communication Engineering, 70% <b>S.M.S.</b> , New Delhi, India 12 <sup>th</sup> C.B.S.E, <i>CBSE 90%</i> 10 <sup>th</sup> C.B.S.E, <i>CBSE 82%</i>	Jul. 2014–May 2018   Jul. 2014 Jul. 2012
INTERNSHIPS AND INDUSTRY EXPERIENCE	<b>Project Intern</b> Celestini Project India, Marconi Society, Google, IIT Delhi <i>Led by</i> :, Dr. Aakanksha Chowdhery (Princeton University) and Prof. Brejesh Lall (IIT Delhi) <b>Technical Executive</b> Prismart Productions, New Delhi <b>Trainee</b> Internet of Things, Texas Instruments, India <b>Trainee</b> Embedded Systems, IQB Solutions, Delhi	Jun. 2017–Aug. 2017   Aug. 2016–Jul. 2017 Aug. 2016–Sept. 2016 Sept. 2015–May 2016
RESEARCH PUBLICATIONS AND PATENTS	<ol style="list-style-type: none"> <li>1. <b>N. Garg</b>, 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.</li> <li>2. <b>N. Garg</b>, 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.</li> <li>3. <b>N. Garg</b>, J.Parikh. “Wireless transceiver design for visible light communication,” ICICI, India, 2017.</li> <li>4. I. Janveja, <b>N. Garg</b>, C. Chawla, J.Parikh. “Aquacomm: Underwater Visible Light Communication,” IndiaCom, India, 2018. (accpeted)</li> <li>5. <b>N. Garg</b> “Aerial Surveillance Quadcopter” 2016. Patented at <i>Intellectual Property India</i>.</li> </ol>	
AWARDS	<ul style="list-style-type: none"> <li>• Winner of World Food India Hackathon. Awarded by <b>President of India</b>. 2017</li> <li>• Winner of Celstini Project India 2017,IIT Delhi Marconi Society. Sponsored by Google.(URL: <a href="http://www.celestiniprojectindia.com">www.celestiniprojectindia.com</a>) 2017</li> <li>• Travel grants: NSF for Mobicom 2017, <b>ACM SIGMOBILE</b> 2017</li> <li>• All India 1<sup>st</sup> in <b>eYantra Robotics Competition, IIT Bombay</b> 2017</li> <li>• All India 2<sup>nd</sup> in <b>eYantra Robotics Competition, IIT Bombay</b> 2016</li> <li>• Ranked 44 in <b>IEEE XTreme Hackathon</b> 2016</li> </ul>	

	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> in Robotron TechMarathon, DDUC, Delhi University 2015</li> <li>• Among top 6 in <b>National CBSE Science Exhibition</b> 2013</li> <li>• 4<sup>th</sup> in <b>International Quanta</b>, CMS School, Lucknow 2013</li> <li>• 1<sup>st</sup> in <b>Regional level CBSE Science Exhibition</b> 2012</li> <li>• 1<sup>st</sup> in Annual School Science Exhibition 2011</li> <li>• 1<sup>st</sup> in Annual School Science Exhibition 2010</li> <li>• 2<sup>nd</sup> in Annual School Science Exhibition 2009</li> </ul>
LEADERSHIP EXPERIENCE	<ul style="list-style-type: none"> <li>• Led a team of 200 students to organize the biggest <b>technical hackathon</b> in Delhi, India. 2018</li> <li>• <b>Chair</b> of BVP IEEE Student Branch July 2017 – Present</li> <li>• <b>Vice–Chair</b> of Robotics Society, BVCOE 2016 – 2017</li> <li>• <b>Head Event–Manager</b>, Fervour - Technical Fest of college. 2017</li> <li>• Conducted more than 80 workshops across India to teach <b>programming concepts</b> on Arduino/Raspberry, <b>Image Processing</b> and <b>Project Management</b>.</li> <li>• Conducted seminars on <b>STEM Education</b> in Delhi schools.</li> </ul>
TECHNICAL PROJECTS	<ul style="list-style-type: none"> <li>• <b>”DRIZY”</b>–Collaborative Driver Assistance Over Wireless Networks 2017</li> <li>• <b>Li-Fi</b> (Data transfer through light) Demonstration 2017</li> <li>• <b>”PUSHPAK”</b> Aerial Surveillance Quadcopter with Rover 2016</li> <li>• <b>Touch–Screen</b> Based Home Automation 2016</li> <li>• <b>IOT</b> based Temperature Logger with Remote Access 2016</li> <li>• <b>FireBird V Robot</b> – Mars Rover Navigation and 3D Modelling 2016</li> <li>• Raspberry pi-3 based Personal <b>Cloud Storage</b> 2015</li> <li>• Anti Car Theft System with SMS alert application 2014</li> <li>• <b>Zig–Bee</b> based Swarm Robotics 2014</li> <li>• Automatic Rubiks Cube Solver 2014</li> <li>• <b>Wireless Odometer</b> 2012</li> </ul>
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• <b>C/C++</b>, <b>Python</b>, Matlab, Embedded C</li> <li>• <b>Computer Vision</b>, Image Processing</li> <li>• <b>Raspberry Pi</b>, <b>Arduino</b>, 8051, Atmel–AVR, Texas–MPU</li> <li>• Pixihaux, <b>APM 2.6/8</b>, KK2 Flight Controllers</li> </ul>