Nakul Garg

Contact Information

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Key Interests

Physical Computing, Machine Learning, Computer Vision, Internet of Things, Electronics Prototyping

Education

B.V.C.O.E., New Delhi, India — Jul. 2014–May 2018
B.Tech. in Electronics and Communication Engineering, *68%*

S.M.S., New Delhi, India
12^{th} C.B.S.E, *CBSE 90%* — Jul. 2012
10^{th} C.B.S.E, *CBSE 82%* — Jul. 2014

Training and Internships

Project Intern — Jan. 2017—present
Celestini Project India, Marconi Society, Google, IIT Delhi
Led by :, Dr. Aakanksha Chowdhery (Princeton University) 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. A. Chowdhery, P. Mukherjee, B. Lall, **Nakul Garg**,C. Chawla, D. Malhotra, H. Bansal, P. Gupta and Ishani Janveja. "Drizy—Collaborative Driver Assistance" 2017. Submitted to *ACM MobiCom*.
2. **Nakul Garg** "Aerial Surveillance Quadcopter" 2016. Patented at *Intellectual Property India*.

Awards

- All India 1^{st} in **Celestini Project India**, Marconi Society, **Google, IIT Delhi** 2017
- All India 1^{st} in **eYantra Robotics Competition**, **IIT Bombay** 2017
- All India 2^{nd} in **eYantra Robotics Competition**, **IIT Bombay** 2016
- Ranked 44 in **IEEE XTreme Hackathon** 2016
- 1^{st} in Robotron TechMarathon, DDUC, Delhi University 2015
- 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

Leadership Experience

- **Chair** of BVP IEEE Student Branch — July 2017 – Present
- **Vice–Chair** of Robotics Society, BVCOE — 2016 – 2017
- **Head Event–Manager**, Fervour — 2017
- **Head Event–Manager**, BVEST — 2016
- Conducted workshops to teach **programming concepts** on Arduino and Raspberry platform.
- Conducted seminars on **STEM Education** in Delhi schools.

Technical Projects

- **"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

- **C/C++, Python**, Matlab, Embedded C,
- **Computer Vision**, Image Processing
- Machine Learning, **Deep Learning**, Neural Networks
- **Raspberry Pi, Arduino**, 8051, Atmel–AVR, Texas–MPU
- **Verilog**, VHDL, FPGA Spartan-6
- Pixihaux,**APM 2.6/8**, KK2 Flight Controllers
- **555 timers, Transistors**, Op–amps