

EXPERIENCE

Associate Electrical Engineer (R&D) [Oct 2015 – present]

Human Condition Safety, NY

- R&D of the company's safety monitoring (wearable) product that uses a wide array of analog & digital sensors and wireless technologies (BLE, WiFi, Cellular- 4G/LTE). Closely involved in the devp. process from early prototyping to pilot production
- Firmware development in C/C++ (using Arduino platform), designing circuits and assisting in PCB layouts
- Hand soldering/assembly of through hole and surface mount components, debugging using DSO and other testing tools
- Designed platforms for performance testing & analysis of the hardware
- Developed a mobile app using Unity3D for collecting data generated by the wearable

Research Fellow [Sept 2014 – Sept 2015]

Interactive Telecommunications Program, New York University, NY

- Researched & performed experiments with emerging technologies in motion capture, IOT and digital fabrication
- Held office hours for ITP students to guide them on topics related to electronics, coding, physical computing & fabrication
- Co-headed the development of a network of Wordpress-based websites for the thesis class of 110 students; for students to showcase & submit their work and for instructors to evaluate it & provide feedback

Prototyping Lab Guardian [Oct 2014 – May 2015]

New York University, NY

- Provided regular training to students, researchers & teachers at NYU on proper use of in-house Laser cutter & 3D printers
- Held workshops and office hours to teach them basic electronics and physical computing with Arduino. Wrote [tutorial booklet](#)

Student Intern [Fall 2013]

Microsoft Research Lab + NYU

- Rapid prototyped "Self-Aware Bikes", a connected devices project for a Microsoft sentient analysis API

TECHNICAL SKILLS

C,C++, C#, Python, PHP, Eagle (PCB design), MultiSim, Visual Studio, VectorWorks (CAD), MasterCAM, MAX/MSP
(Creative tech - Unity3D, Processing, HTML/CSS, Adobe Creative Suite)

EDUCATION

Master of Professional Studies [Interactive Telecommunications (ITP)], New York University, NY.....2014

Bachelor of Engineering [Electronics & Telecommunications], University of Pune, India2011

AWARDS

ITU Telecom World 2011, Geneva, *Young Innovators Award Winner*

NYU Tisch School of the Arts, *Departmental Fellowship (2012-2014)*

SELECTED PERSONAL PROJECTS

- [PrintO-Bot](#): A desktop inkjet printer reengineered and put on wheels to print on any surface while moving over it [Featured on instructables.com, Exhibited at NY Maker Faire, 2015 STEMInism Conference & NYU ITP spring show]
- [Butterflies](#): A series of interactive, electro-mechanical butterflies built using specially designed 3D printed parts [Exhibited at 2015 3D Print Design Week Exhibition (Javits Centre, NYC) & Babycastles Gallery, NY]
- [Rocket Brain](#): Worked as a consultant for artist Charles Lindsay to (re)build an interactive kinetic art sculpture. [Exhibited at Massachusetts Museum of Contemporary Art]