sanniti pimpley

…electrical engineer with experience in robotics, sensor networks and creative technology, I work in multidisciplinary teams to create experiences that amaze people, by building the seemingly impossible

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EXPERIENCE

Associate Electrical Engineer [Oct 2015 – Aug 2017] | *Human Condition Safety, NY*

- R&D of the startup's safety monitoring (wearable) product that uses a wide array of analog & digital sensors and wireless technologies (BLE, WiFi, Cellular- 4G/LTE, GPS). Directly involved in the dev process from early prototyping to pilot production
- Developed firmware (C/C++), designed circuits and assisted in PCB layouts
- Helped design product features based on user experience studies
- Designed platforms for product testing and analysis
- Developed a mobile app using Unity3D for sensor data collection

Research Fellow (One year residency) [Sept 2014 – Aug 2015] | *ITP, 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] | Entrepreneur's Lab, *New York University, NY*

- Provided training to students, researchers & teachers at NYU on proper use of in-house Laser cutter, 3D scanner and printers
- Mentored teams and individuals on rapid prototyping and hardware development for their entrepreneurial projects. 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
  Details: What if shared bikes were self-aware? How would their personalities be formed & how would this affect the rider experience? We used CitiBike's ride history open data with Microsoft's API to determine personalities (shy/ loud/ old soul) of the demo bikes, which then were expressed using sound and signaling mechanism to their riders and other bikes. Built using RPi, Arduino, radio transceivers, bells and flags

TECHNICAL SKILLS

Languages/ Frameworks: C, C++, C#, Python, PHP, HTML/CSS, Processing, MATLAB, OpenCV | H/W: 8/32-bit microcontrollers, ARM Cortex M0, RPi | Applications: Unity3D, EagleCAD (Schematics/PCB design), Visual Studio, Max, Rhino3D

EDUCATION

Master of Professional Studies [Interactive Telecommunications (ITP)], New York University, NY……..2014
Bachelor of Engineering [Electronics & Telecommunications], University of Pune, India ……..2011

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 the floor (/any surface) while moving over it [Featured on instructables.com, Exhibited at NY Maker Faire, 2015 STEMinism Conference & NYU ITP spring show]
- BOTterflies: A series of interactive, robotic 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 an artist to (re)build an interactive kinetic art sculpture from a NASA missile guidance system. [Exhibited at Massachusetts Museum of Contemporary Art]

* all URLs and underlined text are hyperlinked