

Nirav Patel

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Education	Carnegie Mellon University: Pittsburgh, PA B.S. Electrical and Computer Engineering: May 2009 GPA: 3.18/4.00 Major: 3.30/4.00
Work Experience	Google Summer of Code, One Laptop Per Child Developer: Summer 2008 <ul style="list-style-type: none">Designed and developed open source camera and computer vision libraries in C and Python for the Linux based operating system on OLPC's XO laptops.Collaborated with an international community of developers and users.Enabled camera use on the over one million XO laptops deployed in third world countries. Palau Ministry of Health: Koror, Palau Technology Consultant: Summer 2008 <ul style="list-style-type: none">Developed sustainable technology solutions for the Ministry of Health through Carnegie Mellon's Tech Consulting in the Global Community program.Trained hospital staff in database design and use. Dominion, Millstone Nuclear Power Station: Waterford, CT Electrical Engineering Intern: Summer 2007 <ul style="list-style-type: none">Analyzed and updated databases of plant components and processes as a member of the Nuclear Design Basis team.Planned site wide Wi-Fi deployment for over 1,000 users. Westbrook High School: Westbrook, CT: IT Technician: Summer 2005, 2006
Research Experience	Vision and Mobile Robotics Laboratory: Carnegie Mellon University: Fall 2008 <ul style="list-style-type: none">Improved accuracy of computer vision based localization using Matlab.
Projects	Wireless Networked Crowd Interaction Wands: Embedded Systems Design: Spring 2009 <ul style="list-style-type: none">Designed and built AVR powered, ZigBee networked wireless game controllers, or Wands.Devised and developed wand, server, and game side network architecture using C, Java, and Python.Developed crowd games in Python which use computer vision and accelerometer input. 8-bit ALU: Analysis and Design of Digital Circuits: Fall 2007 <ul style="list-style-type: none">Designed ~1500 transistor ALU from Verilog through laying out silicon in Cadence.
Skills	Operating Systems: GNU/Linux, Windows, OS X Software: Matlab, Git, Maya, OpenGL Programming Languages: C, Python, C++, Java, ARM assembly, Lua, GLSL
Leadership & Activities	Student Technology Outreach: Program Coordinator: 2007-2009 <ul style="list-style-type: none">Initiated computer recycling program to repair and distribute computers for non-profits. Pygame: Core Developer: 2008-2009 <ul style="list-style-type: none">Continued camera and graphics library development in Python and C. Sugar Labs: 2008-2009 <ul style="list-style-type: none">Continued software development for One Laptop Per Child. Developmental Solutions Organization: Board Member: 2008-2009 Game Creation Society: 2008-2009
Awards	Carnegie Institute of Technology Dean's List: Fall 2008 Hack for Good Award: Yahoo! University Hack Day 2008