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BRENT C. STRYSKO

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Permanent Address
630 Campgaw Road
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Education	**Carnegie Mellon University** Pittsburgh, PA Bachelor of Science in Electrical and Computer Engineering *May 2015* GPA: 3.02/4.00

Relevant Courses

Introduction to Computer Systems	Electronic Devices and Analog Circuits
Structure and Design of Digital Systems	Mathematical Foundations of Electrical Engineering
Signals and Systems	Principles of Imperative Computation

Skills

Programming Languages: C/C++(6+ years), Verilog, Python, Java, HTML(5), Javascript, NodeJS, Assembly, Ruby, PHP, Labview
Libraries: Android, OpenCV, ROS, Ruby on Rails, ExpressJS
Software: Eagle CAD, AutoCAD, SPICE, Visual Studio
Hardware: AVR, Raspberry PI, ARM, NI cRio

Experience

Qualcomm, QGOV Software Intern, San Diego, CA *May 2013 - Present*
- Help develop a project specific Android application
- Add functionality to Android kernel and boot loader allowing complete recovery from any point of failure

Qualcomm, **QGOV Software Intern**, San Diego, CA *May 2012 – August 2012*
- Created a web-based project management tool using Node-JS as back engine
- Integrated and improved context awareness algorithms into existing android application
- Combined research from several sources in order to construct algorithms to distinguish one's gate uniquely using a cell phone

Carnegie Mellon University, Research Assistant, Pittsburgh, PA *October 2011 – March 2012*
- Developed different vision programs in order to help the blind navigate and interact with the world using a 30x30 electrical stimuli device placed on the tongue
- Modified programs after they were clinically tested to better suit consumer's needs

Projects

Manica, Carnegie Mellon Build 18 Competition *Winter 2013*
- Designed and built a glove with a team of 3 that could measure the 3D vector of each finger using magnets and magnometers
- Fed data back to a phone and exposed an API allowing an Android Application to read the position of each finger relative to the palm and determine common gestures.

Colony Project, Carnegie Mellon Robotics Club *Fall 2013 – present*
- Work with team of 10 to build a swarm of modular swarm land robots
- Developed swarm communication protocol stack via ATMEGA128RFs

Wirelessly Controlled Testing Unit*, CMU Robotics Club* *Spring 2012 – present*
- Designed and built an oscilloscope and adjustable power supply fitted in one unit controlled by WIFI interface-able through APIs built in HTML5/JS and Python
- Won IBM Smarter Planet Award at 2012 Meeting of the Minds
- Lead team of 6 students to develop smaller and more efficient version

Automated Rocket Launch Pad, *Independent Research* *Spring 2011*
- Designed and constructed a wireless rocket launch pad that could be used up to 250 feet

The Cogito Project, *Intel STS* *Spring 2010 – Fall 2011*
- Designed and constructed 4 peripherals to communicate with self-designed control system used to control several devices in a home
- Used OpenCV to implement facial tracking and detection security system only allowing peripherals to be used at a set time by authorized users

LW Bot, *Independent Project* *Winter 2011 – Fall 2011*
- Designed and developed low cost wireless robot made out of commonly found materials
- Interfaced wirelessly to The Cogito Project serving as a "scout bot" around the home

Leadership

Treasurer, Carnegie Mellon Robotics Club *Spring 2011 - present*
- Responsible for securing and allocating funding to club projects and services

Activities

Robotics Club, Carnegie Mellon University *Fall 2011 - present*
Association for Computing Machinery, Carnegie Mellon University *Fall 2011 – present*

Honors

IdeaQuest 2nd Place Team, Qualcomm, *August 2011*
Eagle Scout, Boy Scout Troop #50, *April 2010*