Cristian Baruch Gonzalez 孔克荀

(909) 486-2694 ◇ crisgonzalez346@gmail.com
12725 Navajo Place #2 ◇ Apple Valley, CA 92308

Technical Strengths

Computer Languages	C++, PSpice, MatLab/Scilab, Verilog, Java, LabVIEW, HTML, R, CUDA
Enviornment	Visual Studio, Matlab, LabVIEW, Android SDK, PSpice, Xilinx ISE, R
Spoken Languages	English (Native), Japanese (Inter), Mandarin (Elem), Spanish (Fluent)
Office Productivity	LaTeX, Adobe Photoshop, Adobe Illustrator

Education

California State University, San Bernardino *December 2014*
B.S. in Computer Engineering
Minor in Japanese

Experience

Computer Science and Enginnering Club Quadrotor Project September 2013 — Present
Team Lead *San Bernardino, CA*

- Quadrotor is assembled with a Raspberry Pi as the micro controller.
- PID evaluated using Matlab, face detection evaluation using Matlab.
- Currently implementing PID controller with Python, Face detection with OpenCV.

Multimedia Processing Lab December 2009 - October 2010
Research Intern *Dankook University, Yongin City, South Korea*

- Researched into Computer Vision involving Tensor Voting to recognize facial expression.
- Website for the lab and current projects: `http://mip.dankook.ac.kr/index.php?mid=welcome_page`

NASA Dryden Flight Research Center June 2013 — August 2013
Student Intern *Edwards, CA*

- Tested a quadrotor by doing Hardware in the loop using APM, Mission Planner and X-Plane 10.
- Used a PID controller to help stabilize a quadrotor during flight and determine faults in quadrotor.
- Currently part of the Automatic Collision Avoidance Technology (ACAT) project at NASA Armstrong.

Autonomous Navigation with a Quadrotor Aircraft September 2011 — February 2012
Exchange Student *National Taiwan University, Taipei, Taiwan*

- Developed shape detection, object depth calculations and dynamic navigation planning.
- Developed an autonomous UAV for path finding and tracking in 3D space for it to go through rings.

Garner Holt Production April 2011 — August 2011, September 2013 — June 2014
Student Intern *San Bernardino, CA*

- Developed robotics control system with a team of students.
- Developed human tracking software based on human recognition.
- Project known as Project Yeti and still under research and development.