Cristian Baruch Gonzalez 孔克荀

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Technical Strengths

Computer Languages	C++, PSpice, MatLab/Scilab, Verilog, Bash, Java, LabVIEW, R, Assembly
Enviornment	Matlab, Visual Studio, LabVIEW, Android SDK, PSpice, Xilinx ISE, R
Spoken Languages	English (native), Español (con fluidez), 日本語 (中級), 中文 (初級)
Office Productivity	LaTeX, Adobe Photoshop, Adobe Illustrator

Education

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

Projects & Internship Experiences

Computer Science and Enginnering Club Quadrotor Project September 2013 — Present
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.

Reserach Intern, Multimedia Processing Lab July 2014 — August 2014
Dankook University June 2014 — August 2014
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`

Student Intern, NASA Dryden Flight Research Center June 2013 — August 2013
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
National Taiwan University September 2011 — June 2012
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.

Student Intern, Garner Holt Production April 2011 — August 2011
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.