Jason Fernando Quisberth, EIT

[3136 Wayne Rd Falls Church, VA 22042]
[DOD Security Clearance: Secret]
T: [703-203-7659] E: [61quisberth@cua.edu]
Webpage: [61quisberth.github.io] L: [https://www.linkedin.com/in/jason-quisberth-0934165b]

JQ

Catholic University of America (CUA)
Washington, DC
2010-2015

Master of Computer Science: 2014-2015 GPA: 3.4
Master of Mechanical Engineering: 2014-2015 GPA: 3.4
Bachelor of Mechanical Engineering: 2010-2014 GPA: 3.4
Dean's List 2012-2015, Varsity Tennis Team (DIII NCAA's 2014, Assistant Coach 2015)

Jr. Software Engineer, Leidos
Arlington, VA
April 2015 - Now

~ Developed embedded software solutions for DARPA funded project Transformational Reliable Acoustic Path System (TRAPS) targeting deep ocean sound propagation
~ Utilized C++, C, and Python in developing programs applying image compression, UNIX networking, and numerical methods in core codebases
~ Streamlined cross-compilation process using the Yocto project and GNU autotools resulting in a custom embedded linux distribution

Computer Vision Researcher, CUA
Washington, DC
Aug 2014 - May 2015

~ Implemented Digital Image Correlation algorithm in C++ to extract audio from video
~ Investigated structured light and optical techniques for 3D shape reconstruction

Computer Graphics Researcher, CUA
Washington, DC
June 2014 - Aug 2014

~ Leveraged the Lightweight Java Gaming Library (LWJGL) and OpenGL to create a wavefront OBJ loader and renderer for mesh rasterization
~ Included Java Swing features to create a GUI for OBJ mesh navigation

Student Engineer, NASA Goddard/CUA
Washington, DC
Sept 2013 - Aug 2014

~Successfully designed, built, tested, and launched prototype attitude determination system payload at Columbia Scientific Balloon facility in New Mexico
~ Wrote python for star image capture from 27,000 ft using Raspberry Pi & DSLR

Skills

~ C++ (p), C (c), Python (c), MATLAB (p), Bash (c), Java (pe), Javascript (pe)
~ Boost, NumPy, OpenCV, OpenGL, CUDA
~ Pebble Smartwatch, Arduino, Raspberry pi, Beaglebone Black, Intel Edison
~ JIRA, Confluence, Cmake, Autotools, Vim, Git, Yocto Project

---

Hackathons

2015 National Day of Civic Hacking Arlington Hackathon-2nd place overall
2014 RamHacks-"Best Wearable App using an External API"
2014 Hackathonukah-1st place overall

Published works

~ Pebble Smartwatch app "Pomotime, tomato-based productivity timer"
https://apps.getpebble.com/en_US/application/5738d37c771f1fc4ed000017
~ Z. Wang, H. Nguyen, and J. Quisberth, "Audio extraction from silent high-speed video using an optical technique" Optical Engineering, in press, 2014