John Buglione

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EDUCATION

University of Pennsylvania, Philadelphia, Pennsylvania, USA

- Master of Engineering (M.E.) in Robotics   Sep 2014 – May 2016
  - Thesis: Use of Compton Backscatter X-Ray Imaging in Agriculture
  - Adviser: Dr. C. J. Taylor
  - Research areas: Image Processing, Robotics, Precision Agriculture.

Villanova University, Villanova, Pennsylvania, USA

- Bachelor of Science (B.S.) in Electrical Engineering   Sep 2010 – May 2014
  - Minors in Computer Science and Japanese
  - Graduated Cum Laude
  - Villanova Endowed Scholar
  - US Department of State Critical Language Scholarship Winner 2014

SKILLS SUMMARY

- Proficient in software development using C, Java, Python, Ruby, and MATLAB.
- Proficient HTML and CSS web design skills
- General Office Skills

- Familiar with Signal Processing and Computer Vision Techniques
- Familiar with Machine Learning and Data Analytics Techniques
- Experience with

- Autonomous Aerial Vehicles and Aerial Robotics
- Familiar with robotic vision navigation techniques (SLAM, Optical Flow, Visual Odometry)

WORK HISTORY

Critical Language Scholarship, Participant

- Critical Language Scholarship, Himeji, Hyogo Prefecture, Japan   2014
  - Participated in a program focused on creating ties between Japanese and American nationals through the study of the Japanese language and various cultural enrichment activities. Worked in teams completing a variety of projects in the local community

MIRTHE, Research Intern

- Zondlo Lab, Princeton University, Princeton NJ   2013
  - Worked as a research assistant building an autonomous aerial vehicle sensor platform. The sensor platform is to be used to survey methane emissions at natural gas hydraulic fracturing sites.
- Zondlo Lab, Princeton University, Princeton NJ   2012
  - Worked as a research assistant doing work in the field of mid-infrared laser spectroscopy. While working, I assisted in improving an automated, field deployable, gas sensor system.

Alltest Instruments, Instrument Calibration and Service Technician

- Farmingdale, NJ   2011
  - Worked as a technician diagnosing and repairing electronic test equipment such as, but not limited to; multimeters, oscilloscopes, spectrum analyzers, network analyzers, power supplies, and frequency counters.

Delaire USA, Technical Intern

- Manasquan, NJ   2010
  - Worked as a technical assistant creating custom RF and fiber optic cables.