

EDUCATION & ACHIEVEMENTS

The College of William and Mary, Williamsburg Virginia, Class of 2015

- **Major:** Computer Science **Minor:** Economics, Mathematics
- **GPA:** 3.75
- Dean's List 2011-2015
- Phi Mu Epsilon Math Honors Fraternity 2013-2015
- NASA Ames Poster Contest Winner 2013
- SC14 Poster Session Presenter 2014

WORK EXPERIENCE

Lawrence Livermore National Lab Livermore, CA July 2015 – Present

Position: Software Developer

- Design and implement massively parallel algorithms in large multi-physics codes

W&M High Performance Computing Williamsburg, VA February 2012 – May 2015

Position: Undergraduate Assistant to High Performance Computing

- Special projects e.g. parallel I/O performance testing of RHEL/SLES NFS, STREAM memory benchmarking, and systems software development
- Unix shell and Python scripting, C programming, MPI programming, and Java programming for client-server applications and cluster tools development
- Assembly and maintenance of 900-core distributed-memory compute cluster

NASA Ames Research Center Moffett Field, CA May 2013 – August 2013

Position: Supercomputing Research Intern

- Investigation of performance scaling in four generations of Intel Xeon processors running the NASA Parallel Benchmarks on top-20 supercomputer Pleiades
- Developed regression-testing framework for code performance assurance
- Novel research of MPI communication traffic across 12-D network hypercube

NASA Langley Research Center Hampton, VA January 2014 – August 2014

Position: UAV Engineering Intern

- Developed ground station client that collects ADS-B, GPS, and other RF data transmissions from UAVs and displays live air traffic of the local airspace
- Wrote software to command autonomous vehicle operations over MAVLINK
- Prepared hardware/software systems for multirotorcraft and fixed-wing aircraft

W&M Admissions Office Williamsburg, VA August 2014 – May 2015

Position: STEM Tour Guide

W&M Residence Life Williamsburg, VA August 2012 – January 2014

Position: Resident Assistant

Banner Personnel Service, Inc. Naperville, IL June 2011 – August 2011

Position: Office and Recruiting Assistant

SKILLS & PROFICIENCIES

- OOP in Java/C++, scripting in Python/tcsh, systems programming in C, data visualization and graphics in matplotlib and R, Android and Web development
- Linux-lover, OS X aficionado, basic Windows and Solaris experience