

Justin Rivera

Administrative Intern at the U.S. Naval Research Laboratory
Favorable background investigation completed

8162 Counselor Rd
Manassas, VA
(571) 241-1704
jarivera.1295@gmail.com

EXPERIENCE

Department of the Navy, U.S. Naval Research Lab—Administrative Intern, Code 6702

June 2015 - PRESENT

I was involved in several projects which included designing and building probes for plasma and aquatic environments and helping to maintain over 250 computers. I am currently involved in two administrative projects. The first is assisting with the electronic requirements of a conference room certified for classified meetings including computer systems, sound masking and interactive display capabilities. The second being aiding the division Administrator in preparing, executing, and analyzing various documents including HR, training, travel and credit card documents.

Elizabeth Vaughan Elementary School, Woodbridge, VA—VEX IQ Coach (Volunteer)

October 2015 - PRESENT

As coach of the VEX IQ robotics team at Elizabeth Vaughan ES, my duties include the direct supervision of the children on the team coupled with expanding their knowledge of STEM. I educate them in the various science, technology, engineering and mathematical components involved in building a successful robot as well as encourage them to form their own ideas and designs. We qualified for the Virginia VEX IQ State Championship which occurred on Feb. 20th where we achieved 13th overall and tied for 11th in programming skills.

Elizabeth Vaughan Elementary School, Woodbridge, VA—Assistant First Lego League (FLL) Coach (Volunteer)

October 2015 - January 2016

As Assistant coach of the FLL team, I was tasked with helping the children learn the significance of STEM on robot design with the majority of my efforts going towards enabling the students to have a functional and effective program that they can use to operate their robot.

St Vincent Archabbey for St Vincent College, Latrobe, PA—IT Help Desk Student Technician

October 2014 - MAY 2015

As a student technician, I provided assistance to users of personal and

SKILLS

Able to use various presentation platforms (PowerPoint, Prezi)

Knowledgeable on entire Microsoft Office Suite and freeware alternatives (OpenOffice, LibreOffice, NeoOffice, Google Drive)

Experienced in all aspects of project management including interdisciplinary projects and teams ranging from 3 to 20

Project experience in multiple disciplines as both project lead and team member (Aerospace/Aeronautical Engineering, Electrical Engineering, Biochemistry, Mechanical Engineering, Physics, Computer Science)

Experienced with device triage, diagnosis and repair

Highly experienced in customer service

Knowledgeable in all aspects required to set-up and maintain large groups of computers and connected devices including Active Directory and

Knowledgeable of standard BYOD implementation

school equipment over the phone and in person where I had to occasionally have the users turn the equipment in for more intensive repairs. This necessitated thorough note keeping and interpersonal communication to effectively process the devices. I also provided site based in person assistance where myself and another tech would go to the equipment location to solve the issue. A large part of my role was to ensure the smooth running of all college computing devices as well as the smooth running and interoperability of a wide variety of user devices.

Prince William County Public Schools, Northern VA — Robotics Volunteer

January 2007 - January 2015

I volunteered in a variety of role at a large number of robotics competitions hosted in Prince William County and elsewhere in the United States. The role I occupied most often was computer operator, where I would set up the network used in the competition and ensure that all involved computers stayed operating smoothly.

Prince William County Public Schools, Northern VA — Information Technology Support Assistant (Volunteer)

January 2007 - January 2015

During all summers and school breaks, I assisted the Information Technology Support Specialist (ITSS) and the Information Technology Resource Technician (ITRT) with upgrading and maintaining the computers and related technology infrastructure at a local Middle School and Elementary School with approximately 500-1000 devices at each. While I was with the school system, the schools I was working with were continuously among the first in the county to have their computers ready for the new school year and were always kept up-to-date.

EDUCATION

University of Mary Washington, Fredericksburg, VA— Bachelor's Degree, Computer Science

August 2016 - May 2018

I will be attend UMW starting this Fall semester.

Northern Virginia Community College, Northern VA— Associate's Degree, General Science - 2.733 GPA

August 2015 - May 2016

While at Northern Virginia Community College, I tutored several students in Physics, Chemistry, Java and AutoCAD on a volunteer basis and was widely known through out my classes as someone who was willing to provide assistance to whomever needed it.

LANGUAGES

English - Native Language
French - Working Proficiency
Spanish - Basic Proficiency

OPERATING SYSTEMS

Microsoft Windows
95/98/XP/Vista/7/8/8.1/10

Microsoft Windows Server
2003/2003 R2/2008/2008 R2/2012/2012 R2

Debian Wheezy 7.0+

Ubuntu Lucid Lynx 10.04
LTS/Precise Pangolin 12.04
LTS/Trusty Tahr 14.04
LTS/Maverick Meerkat 10.10+

Ubuntu Server 10.04+

Arch Linux

CentOS 4.9+

Linux Mint Nadia 14+

openSUSE 11.4+

Red Hat Enterprise Linux
Tikanga 5.8+

COMPUTER LANGUAGES

C#/++

Java

Javascript

Bash

Windows PowerShell

Saint Vincent College, Latrobe, PA— *For credit classes only*

August 2014 - May 2015

While at Saint Vincent, I participated in the Computer Club where we designed and built a small scale implementation of the first supercomputing cluster at the school using excess computers that were recently replaced and a second cluster using Raspberry Pis.

The Governor's School @ Innovation Park, Manassas, VA— *Certificate of Completion, Physics*

August 2012 - May 2014

While at the Governor's School, I participated in the Team America Rocketry Challenge, Siemens We Can Change the World Challenge, Real World Design Challenge (RWDC) and CyberAces. My team for the Siemens We Can Change The World Challenge won for the state of Virginia with a project to clean water through a mechanical, media-less filter. My team for RWDC won at the state level with our project of using a novel tilt-rotor drone design to enable farmers to check their crops for disease easier. In the CyberAces challenge, I ranked highest in my school, 51st in the state and in the top 14% nationwide.

Osborn Park Senior High School, Manassas, VA— *Advanced Diploma, Biotechnology - 3.56 GPA*

September 2010 - May 2014

While at Osborn Park, I was a part of National Honor Society and French Honor Society. I was also Co-Founder of my school's Mu Alpha Theta, a math honor society, and Science National Honor Society.

PROJECTS

PiSight — C++/Python/Bash/AWS/Flask/HTML

January 2016 - PRESENT

PiSight is a system of Raspberry Pi computers which, together, are able to monitor where people are based on the WiFi signals from their cell phones. Through this system, we are able to determine how many people are in an area, how quickly they are entering and leaving the area and, through tracking their MAC addresses, we are even able to identify individual users. Created at Hoya Hacks.

Run or Fund — Firebase/AWS/Android/HTML

November 2015 - PRESENT

Run or fund is a dynamic web and mobile application that promote charitable giving whilst encouraging mental and physical wellness. Created at HackRPI.

TouchGo — *Android/Assembly x86/C++*

October 2014 - PRESENT

We reverse engineered and patched the binary provided by Synaptics – we did not have access to their source code– in order to continuously read and store fingerprint data at fixed intervals. With this data we developed proof of concept hotkey software, using the SourceAFIS fingerprint recognition API, that will open different applications based on the finger touched to the sensor. Created at HackMIT.