

# Cassie Q. Xia

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## Education

### Johns Hopkins University | Baltimore, MD

May 2018 – May 2020

- Master of Science in Electrical and Computer Engineering, Communications and Networking

### Georgia Institute of Technology | Atlanta, GA

August 2014 - December 2017

- Bachelor of Science in Electrical Engineering, Dean's List: 4 semesters

## Experience

### General Dynamics Mission Systems | Oakton, VA

January 2018 – Present

#### Cyber Software Engineer – CIAP Test Automation

- Fixed 37 newly converted Selenium-Cucumber test scripts by modifying feature files and automation framework.
- Created 13 Selenium-Cucumber test scripts and created/revised XPATHs for 55 mapped pages for reorganization.
- Enhanced/made 10 methods in both Jenkins and Cucumber regression suites for use in regression tests.
- Wrote 3 test cases/SVTPs for newly implemented user stories for export to DOORs.
- Troubleshoot 15 failed Jenkins integrated Selenium Java test cases ran on newly implemented DevOps servers.
- Supported manual testing team by verifying bug fixes, posting bugs on JIRA, and generating regression suite reports.

### General Dynamics Mission Systems | Oakton, VA

May 2017 – August 2017

#### Cyber Security Software Engineering Intern – Cyber Indicators Analysis Platform

- Collaborated in Agile work environment with the dev and test team, utilized GIT in Maven repository within Linux environment.
- Created 8 Selenium Java test scripts for CIAP web application to automate application testing process.
- Fixed/added XPATHs and common methods in mapped Selenium framework to incorporate in web tests.
- Completed regression testing and fixed/enhanced 50% of all 22 web tests for updated UI compatibility.
- Documented 133 files with specific process steps and explanations for future usability.
- Verified 117 bug fixes on newly refactored UI and provided team with documentations of found errors/analyses.

### Dominion | Richmond, VA

May 2016 - August 2016

#### Electric Distribution Engineering Intern – System Protection Engineering

- Automated generation of text files and white-sheets from Excel bus & transformer spreadsheets to run tests on ASPEN.
- Developed and applied an automated net metering user-form to evaluate 110+ inverter compliance requests in system database.
- Constructed 10-page documentation on how to conduct net metering requests using automated user-form.
- Modified 229 distribution line breaker discrepancies on transmission-line ASPEN model based on ASPEN & SAP.
- Analyzed and tested 12 breaker faults on a transmission-line ASPEN model.
- Documented 212 discrepancies from 15 line samples on an Impedance Project site and categorized/analyzed errors.

### Pepco Holdings, Inc. | Bethesda, MD

May 2015 - August 2015

#### Engineering Intern III NERC – System Operations

- Automated the compiling of 480+ transformer data sheets, as well as audited data with EMS-extracted computed values.
- Utilized Python to transcribe 40,000+ data points from EMS onto PSS/E 34 for outage contingencies model enhancement.
- Discovered PSS/E bug that caused a crash when too many nodes are added to substation - reported to Siemens.

## Skills & Activities

### Technical Skills

- Computer Languages - C, C++, Gherkin, HTML/CSS, Java, JavaScript, MATLAB, MIPS Assembly, Python, TCL, VHDL, Visual Basic
- Software Tools - Adobe Dreamweaver, ASPEN, Cucumber, Eclipse, Excel VBA IDE, GitHub/GitLab, Jenkins, JSXGraph, JUnit, LabView, Linux (Fedora, Ubuntu), LTSpice, Mathcad, Maven, Mbed, Micro-Cap SPICE, Microsoft Office, Microsoft Windows, MiSaSiM, NI ELVISmx, Multisim, PhoneGap, Photoshop, PSS/E 34, Quartus II, Selenium, TestNG, Wireshark
- Certification – Certified SAgE 4 Scrum Master

### Activities & Affiliations

- Eaton - Multidisciplinary Capstone Project (Atlanta, GA) – Modeled 5G small cell with MIMO, mmWave, Sigfox/LORA, and Wi-Fi coverage on light pole. Perform wireless link budget analysis. Identify antenna and transmitters' power consumptions.
- VIP: Intelligent Tutoring System (Atlanta, GA) – Resurrected mobile app on PhoneGap and added performance review functionality. Recreated discrete convolution GUI with HTML/CSS/JavaScript/JSXGraph/GITHUB for Signal Processing students.
- Society of Asian Scientists and Engineers (Atlanta, GA) – Participate in career-building workshops and social events. Southeast Regional Conference 2017, National Conference & Career Fair 2017, Southeast Regional Conference 2018.
- Stem Power Co-Mentor (Lithonia, GA) – Conduct interactive activities, based on a pillar of learning that encourages questioning, making mistakes, and trying new things, with a junior-level Girl Scout troop.
- Women in ECE Executive Committee (Atlanta, GA) – Partake in organizing and hosting outreach events.