

# Vincent Truong

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## EXPERIENCE

### Software Engineer Intern

May 2024 – Aug 2024

*Trident Systems*

*Fairfax, VA*

- Performed testing on aviation software with 300+ test cases using Zephyr Scale to ensure stability of new versions
- Integrated four flight joysticks that increased possible functionality and ease of use through parsing raw binary data from the Linux terminal and creating multiple configuration text files
- Developed a full-stack program utilizing JavaFX and the JInput library to easily test joystick hardware functionality and assess the usability of configuration files by analyzing event data in real time

### Research Apprentice

May 2024 – Present

*Christopher Newport University*

*Newport News, VA*

- Utilized ETAP (Electrical Transient Analyzer Program) to analyze the efficiency of relay coordination in power systems by running Load Flow, Short Circuit, Arc Flash, and Relay Coordination studies
- Simulated a modified IEEE 9-bus system with renewable integration in ETAP and automated change in protection settings via ETAP's Python API to adjust TCC curves for improved reliability
- Analyzed a Vehicle-to-Grid (V2G) system model in Simulink by examining outputted active power from renewable energy sources and residential loads with different regulations for charging and discharging cycles

### Tennis Instructor

June 2023 – Present

*Country Club of Fairfax*

*Fairfax, VA*

- Organized lesson plans with drills and games to advance highschool students' basic tennis fundamentals
- Collaborated with other instructors to coordinate drills and served as hitting partner for adult students

## EDUCATION

### Christopher Newport University

Newport News, Virginia

*B.S. Computer Engineering, Minor in Leadership Studies, GPA: 3.91*

*Aug. 2022 – May 2026*

- **Awards:** Dean's List (Fall 2022 - Spring 2023 - Fall 2023 - Spring 2024), Honors and Presidential Leadership
- **Relevant Coursework:** Discrete Structures for Computer Applications - Programming for Applications - Programming for Data Manipulation - Digital Logic Design - Physics 1 and 2 - C++ Programming - Electric Circuits - Ordinary Differential Equations

## SKILLS

**Languages:** Java, Python, HTML, C++, MATLAB

**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, Eclipse, Unity, JGrasp, Windows, Microsoft Excel, NetBeans, RHEL 8, Jira, Zephyr Scale, Agile, Confluence, ETAP, Simulink

## EXTRACURRICULARS

### Student Athletic Advisory Committee | Christopher Newport University

Aug 2022 – Present

- Voiced opinions and provided possible solutions at monthly meetings that discuss current issues athletes want to see changed to work towards providing a healthier environment for student-athletes as a Men's Tennis representative
- Organized on-campus events and fundraisers with goals of improving the mental health of 630+ student-athletes

### Pi Kappa Alpha Fraternity | Mu Rho Chapter

Nov 2023 – Present

- Raised over 15,000 dollars for Children's Hospital of The King's Daughters (CHKD) through collaborative projects
- Represented the fraternity in campus and community events, fostering positive relationships and civic engagement

### Varsity Tennis | Christopher Newport University

August 2022 - Present

- Conference Player of the Year 2024 and Rookie of the Year 2023
- Achieved singles regional ranking of 7th