**Felipe Campoverde**

Blacksburg Virginia | (804) 356-5749 | [fcampoverdeg@vt.edu](mailto:fcampoverdeg@vt.edu) | [in/fcampoverde](https://www.linkedin.com/in/fcampoverdeg)g | [fcampoverdeg.dev/](https://fcampoverdeg.dev/)

# EDUCATION

# Virginia Tech, College of Engineering, Blacksburg, VA 2024 - 2026

# Bachelor of Science in Computer Science GPA: 3.0

# WORK EXPERIENCE

**Chief Engineer & Software Engineer: CroQuest | VT CRO|** Blacksburg, VA *March 2025 - Present*

* Developed an educational game console using ESP32-WROOM, Bluetooth, SD. Wrote 5000+ lines of code.
* Programmed 8 games like Snake, Pong, Tetris, Breakout, TicTacToe using C/C++, use of assets
* Programmed Bluetooth (BLE) connectivity to develop multiplayer logic in games.

**Cyber Security Instructor| Virginia Tech|** Blacksburg, VA *May 2024 - August 2024*

* Taught core cybersecurity concepts such as encryption, network security, and ethical hacking to school students
* Explained security topics into accessible lessons, fostering early interest in cyber defense and ethical computing

**Student Assistant Manager| Virginia Tech|** Blacksburg, VA *January 2024 - Present*

* Supervise student coworkers, ensure food safety protocols, and manage customer-facing service stations
* Provide bilingual support (English/Spanish) and ensure smooth daily operations across various roles

**PROJECTS**

**Multithreaded Fork/Join Threadpool with Work Stealing** **( C )**

* Developed a threadpool system in C supporting dynamic task scheduling and load balancing
* Implemented a custom queue structure and used condition variables and mutexes for thread-safe operation

**RC Car - VT CRO ( C++, Python, XML, Git )**

* Contributed to the development of an autonomous RC car using ROS 2, RViz, Nav2, URDF, and Gazebo
* Integrated hardware including LiDAR, RealSense camera, Arduino, and Raspberry Pi for SLAM and navigation,

**Interactive Bar Chart Web App** **( JavaScript, HTML, CSS )**

* Created a React-based web app that allows users to enter, edit, and visualize data using bar charts
* Implemented coordinated multiple views, file saving/loading, and dynamic axis label configuration

# EXTRACURRICULARS

**Software Engineer, VT CRO** *September 2024 - Present*

* Support robotics projects in a student-led team by developing software and preparing for competitions

**Peer Mentor, Ceed | Virginia Tech**   *September 2024 - Present*

* Supported first-year engineering students through mentorship, workshops, and study sessions

**SKILLS**

* **Programming languages:** C, C++, Python, Java, JavaScript, HTML/CSS,
* **Technologies/Tools:** Linux, React.js, Platform/IO, Arduino, ROS2, Rviz, Gazebo, Git,
* **Other:** Bilingual (English / Spanish), Team Leadership, Quick Learner, Curious