

# Felipe Campoverde

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## EDUCATION

**Virginia Tech, College of Engineering, Blacksburg, VA**  
**Bachelor of Science in Computer Science**

**2024 - 2026**  
**GPA: 3.0**

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## 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
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## 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
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## 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
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## 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