Zachary T. C. Weiss

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EDUCATION:

Virginia Polytechnic Institute and State University, Blacksburg, VA   *MAY 2024*
  B.S. in Computer Science
  - Minor in Philosophy; Cumulative GPA: 3.25 – In Major GPA: 3.11

TECHNICAL SKILLS:

- Java, Python, Linux, C, C++, C#, HTML, CSS, JavaScript, Adobe Photoshop, Microsoft Word Suite, VirtualBox, WSL, VMWare, MATLAB, Basic Networking, Wireshark, Gitlab, Unity, Basic Blender, Proficient with Desktop Computers

PROFESSIONAL EXPERIENCE:

- **Software Developer Internship with Fermata Energy LLC**, Blacksburg, VA   *MAY 2022 – AUG 2022*
  - Developed collaborative tools in Visual Studio in JavaScript/CSS and Python in accordance with MQTT and IEEE 2030.5-2018 standards.
  - Hosted a Modbus TCP server through virtualization software, Windows Subsystem for Linux (WSL), to create an environment for testing a bi-directional EV charger.
  - Created real-time register publishing scripts using a "pub-sub" model to communicate between separate secure devices over a local network and VPN.
  - Edited scripts running from a Linux environment with HTML 5 front-end to create a diagnostic dashboard model for a new fleet of EV chargers.
- **Internship with the Hume Center for National Security and Technology,** Blacksburg VA   *JAN 2021 – MAY 2021*
  - Outlined a plan to access the CAN Bus of an electric automobile described in a literature review with an associate group of graduate students as an undergraduate research subgroup member.

PRACTICAL EXPERIENCE:

- **Rising Sophomore Abroad Program (RSAP)**, UK, Ireland, Blacksburg, VA   *JAN 2022 – MAY 2022*
  - Accepted into a VT Study Abroad program to learn about global engineering through travel to the United Kingdom and Ireland.
  - Learned the history of innovation in the British Isles to better understand how to employ those same strategies in the creative process.
- **NAViTi: The Navigation Laboratory for Autonomous Vehicle Integrity**, Blacksburg, VA   *OCT 2021 – MAY 2022*
  - Modernized the lab's website using the built-in development software deploying relevant information pertaining to new publications, members, and current research.
- **Simulation Lead on High School Robotics Team, TALON 540**, Richmond, VA   *SEP 2016 – MAR 2020*
  - Built a simulated environment in Unity using C#, Visual Studio, Oculus DK2, and Inventor which aided in avoiding simple design mistakes of size and stability for the efficacy of the team's robot.

EMPLOYMENT EXPERIENCE:

- **Brambly Park Winery**, Richmond, VA – Runner & Host   *JUN 2021 – AUG 2021*
- **Amazon Fresh**, Richmond, VA – Packer and Stacker   *NOV 2020 – JAN 2021*
- **Doordash**, Henrico, VA – Delivery Driver   *JUN 2020 – AUG 2020*

SPECIAL INTERESTS AND SKILLS:

- Executive Board Member of Triangle Fraternity: Brother-At-Large   *NOV 2021 – PRESENT*
- American Red Cross Certification in CPR/AED/First Aid   *SEP 2017 – PRESENT*
- Opioid Overdose Prevention (NARCAN) Certification   *MAY 2020 – PRESENT*
- Workplace Readiness Certification   *SEP 2019 – PRESENT*
- CompTIA A+ 1001 Certification   *MAR 2020 – MAR 2023*