Vinial Simon

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Professional Summary

Civil engineering student with a strong command of engineering tools and software, including **Simulink, Civil 3D**, Geometric Dimensioning and Tolerancing (**GD&T**), **MATLAB**, **Bluebeam**, and **LTspice XVII**. Proficient in various aspects of civil engineering, HVAC systems, sediment and erosion control, and construction safety. A resolute and knowledgeable professional committed to delivering engineering excellence.

Education

Bachelor of Science: Civil Engineering **Expected June 2026**
University of Washington, Tacoma, WA

Certifications: Certified Sediment & Erosion Control Lead (CSECL)
Activities and Societies: American Society of Civil Engineers, Engineering Without Borders, First Gen Fellows.

Relevant Experience

Undergraduate Research Assistant **Sept 2023 – Present**
University of Washington, Tacoma, WA

- Experiment mathematical modeling using MATLAB by reviewing models representing rigid blocks connected by springs and the equations that describe these models in terms of equilibrium, kinematics, and constitutive relations.
- Conducting literature review using library resources to find, read, and summarize relevant publications.
- Integrating data processing and organization through reading, interpreting, and summarizing results from numerical simulations.

Civil Engineering Intern **June 2023 – Sept 2023**
Vintech Engineering, Tacoma WA

- Employed Bluebeam to meticulously review and enhance Site Development Drawings, ensuring strict adherence to clients' regulatory requirements, industry standards, and project specifications.
- Proficiently harnessed the advanced features of Civil 3D for the creation of thorough traffic control plans, precise cost estimates, and vital xref files, enhancing the efficiency and accuracy of design execution.
- Actively participated in site visits and field assessments to gather data, monitor project progress, and ensure adherence to design specifications and quality standards.

Project Management Intern **Jan 2023 – June 2023**
Global Engineering, Seattle, WA

- Collaboratively coordinated daily project activities, including scheduling, answering Request for Information (RFI), Change Order Proposals (COP), Daily Logs, submittals, and Site-Specific Safety Plans (SSSP).
- Assisted in risk identification and mitigation, financial tracking, and safety compliance, employing effective strategies to control dust, vibrations, and aspergillus to maintain a clean and safe environment.
- Conducted comprehensive site inspections in a Dialysis wing, emphasizing strict adherence to sterile practices to prevent the spread of germs and dust while safeguarding the hospital's environment.

Project Experience

Tensile Testing **Mar 2023 – June 2023**

- Subjected various metal samples to tensile loading until failure using the MTS Criterion model 45 to determine Young's Modulus, yield strength, and ultimate tensile test.
- Played a key role in ensuring product quality by regularly performing tensile tests on components and materials to verify their adherence to industry standards and specifications.