TARA M. PREVO

Cascade Locks, Oregon
tmprevo@gmail.com
+1 503 713 7678
linkedin.com/in/tmprevo

SUMMARY

Detail-oriented engineer with a passion for software reliability and user experience. Expert in embedded systems, software validation, and root cause analysis, with a proven track record in managing complex remote projects. **Proficient in Jira, Visual Basic/VBA, Git, GitHub, R, Python, Streamlit, MATLab, HTML, CSS, Javascript; experience with Kotlin, Compose, React, Android Studio, Google Cloud Platform (GCP), virtual machines, Kubernetes/Docker, LangChain, generative AI, SQL, and CLI.** Experienced in collaborating with cross-functional teams to deliver high-quality, fault-tolerant systems. **Committed to continuous learning and innovation in development methodologies, ensuring software accessibility, integrity and performance.** Successfully identified and resolved critical system failures and software bugs in high-stakes environments like NASA and Daimler Truck North America. **Published technical author with expertise in clear, adaptable communication.**

EDUCATION

Portland State University, Cum Laude Portland, OR (2020) Bachelor of Science, Mechanical Engineering (specialty in aerospace engineering & computational mathematics)

POSITIONS

Embedded Software Engineer
Daimler Truck, Remote, *2021-2024*

Graduate Engineering Intern
IRPI & NASA Ames, Remote, *2020*

Software Engineering Intern
Daimler Truck, Portland, OR *2019*

Undergraduate Research Assistant
Dryden Drop Tower, Portland, OR *2018-2019*

Engineering Intern
NASA MSFC, Huntsville, AL *2020, 2017, 2016*

ASSOCIATIONS

Portland State Aerospace Society, 2014-2020

American Institute of Aeronautics & Astronautics, 2014-2018

Portland Community College Student Leadership (ASPCC), 2015-2016

PUBLICATIONS

Magnetically damped passive valve, USPTO Patent #11,098,817, Figure 2 & 3, August 24, 2021.

Thermal Analysis and Testing of Oregon's First Satellite, Portland State University technical capstone w/ Corcoran, Dilday, et al. 2020

Omni-gravity Hydroponics System for Spacecraft, Undergraduate Research & Mentoring Program, system tolerance test results prepared for NASA Ames, 2019

Concept Analysis & Design of a Magnetically Damped Check Valve, abstract & technical keynote speaker, Oregon Space Grant Consortium 2016

Liquid Fuel Engine Test Stand, Portland State Aerospace Society & NASA UTEAP, w/ Berchand, Krishcko, Tiller, et al. 2016

SERVICE

Trail Work Volunteer, Pacific Crest Trail Association & Washington Trails Association *2017-Present*

Volunteer, Oregon Food Bank, Portland, OR *2014-Present*

Vice President/Secretary, PTK Honor Society, Portland, OR *2014-2016*