

ATLAS VERNIER

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Blacksburg, VA, USA ♦ Open to relocation on a global level

EDUCATION



Virginia Tech, Blacksburg, VA

Master of Science, Industrial & Systems Engineering; 3.93 GPA; present

Concentration: Human Factors Engineering & Ergonomics



Virginia Tech, Blacksburg, VA

Bachelor of Science, Industrial & Systems Engineering; 3.43 GPA; May 2023

Bachelor of Arts, Foreign Languages—French; 3.79 GPA; May 2023

WORK EXPERIENCE



Institute for Creativity, Arts, and Technology

Graduate Assistant; May 2023 – present

- Exploring novel modalities of data collection/presentation and artistic expression
- Collaborating with artists, designers, musicians, and researchers from around the world to create a technological experience that reflects their artistic goals and story
- Developing educational structure and workflows for transdisciplinary pedagogical experiences for students engaged with the Engineering Education program



Human IMPAC-T Lab – Virginia Tech

Graduate Research Assistant; August 2023 – February 2024

Researcher and Technical Writer; October 2022 – August 2023

- Developing system-wide solutions, workflows, and resources for transdisciplinary education, research, and recruitment in virtual and physical collaborations



Applied Research in Immersive Experiences and Simulations – Virginia Tech

Researcher and Technologist; August 2021 – May 2024

- Utilizing motion capture and photogrammetry data to develop immersive augmented and virtual reality experiences and displays



Field and Space Experimental Robotics Laboratory – Virginia Tech

Communications & Design Specialist; November 2018 – October 2022

- Created 3D models for virtual testing, simulating, and presentation
- Oversaw students and projects (internal project management; external outreach)



National Aeronautics and Space Administration – Langley Research Center

Digital Transformation Rapid Development Team; August 2019 – January 2020

- Developed interactive and reactive technology for transformative displays
- Integrated Cloud management for the VR CAD Repository with variable permissions



National Aeronautics and Space Administration – Langley Research Center

Digital Transformation Rapid Development Team Intern; June – August 2019

- Created models for the Mars habitat and AR/VR development and integration
- Created a VR CAD Repository as a center-wide knowledge base for AR/VR development, design reviews, visualizations, and simulations (ITAR & SBU compliant)
- Contributed to the design and implementation use-case of the Heads-Up Display in virtual and augmented reality for lunar navigation at the Shackleton Crater



National Aeronautics and Space Administration – Langley Research Center

Intern; June – August 2018

- Created 3D models for augmented and virtual reality development and integration



National Aeronautics and Space Administration – Langley Research Center

Mentorship for Engineering; June – July 2017

- Created 3D models for use in the medical center of the Mars habitat

LEADERSHIP & VOLUNTEER EXPERIENCE



Administrator & Community Moderator

The Writer's Block; August 2021 – present

- Fostering an attitude of continual improvement and an environment of constant growth for an international community of over 1,500 writers
- Establishing best practices and operating procedures to encourage staff autonomy as needed when admin is offline due to the 24/7 nature of the community



Post-Production Manager; Subtitling & Translation Lead; Concept & 3D Assistant Lead

Symphony; August 2021 – present

- Determining creative direction for an international team of 16 concept artists to establish an effective workflow between concepts, props, 3D modeling, and layout
- Establishing an effective workflow for the editing, continuity, sound effects, and Foley teams, ensuring that the series is visually and auditorily consistent



Senior Staff Assistant

The Marching Virginians; August 2023 – present

Formerly Rank Captain; August 2021 – May 2023

- Managing the logistics, organization, performance, and well-being while facilitating communication to create an environment of mutual respect and continual growth
- Providing experience-based advice and support for current leadership to address barriers with new marchers and potential gaps in positional purview



Community Translator for Entertainment Media

English to French; July 2019 – July 2022

- Translated and transcribed a recorded international broadcast from English to French, increasing international audience and accessibility



Director of Corporate Relations

Institute of Industrial Engineers, Virginia Tech chapter; April 2021 – May 2022

- Established and maintained corporate and alumni relationship networks
- Planning and coordinating events for a department of over 750 students



Citizen Science Leadership Team

Orion Sciences LLC, Virginia Tech; March 2019 – May 2020

- Created personalized science projects for teams of first-year students
- Developed communication, presentation, and writing skills



Moon to Mars Ice & Prospecting Challenge – Langley Research Center

NASA RASC-AL Special Edition; December 2018 – June 2019

- Created 3D models for multiple iterations of Overburden Layer Ice to Vapor Extracting Robot (OLIVER) to communicate design and operations to NASA

CERTIFICATIONS & AWARDS



James R. Sochinski Spirit of Tech Award

CITI—Responsible Conduct of Research; Social & Behavioral Research

Autodesk Certified Professional: Inventor 2015

Autodesk Certified User: AutoCAD 2017, Inventor 2017

SKILLS

International Organization
Multilingual Decision-Making
Interdisciplinary Workflows
Global Management
Novel Technology Applications

Integration & Implementation
Systems Thinking
Project Management
Grant & Proposal Writing
French (verbal and written)

Inventor & Solidworks
Twinmotion
Adobe Suite
Microsoft Office Suite
Google Suite