910 Echo Mountain Dr. Stillwater, OK, 74075 (406) 880-1732

Samuel Hiltz

Expected May, 2026

August, 2022 – Present

November, 2024 - Present

GPA: 3.299

Samuel.Hiltz@okstate.edu Portfolio: hilsamuel.github.io

EDUCATION

Oklahoma State University | Stillwater, OK

Bachelor of Science in Aerospace Engineering Bachelor of Science in Mechanical Engineering Bachelor of Science in Applied Physics

WORK EXPERIENCE Teaching Assistant – Introduction to MAE Design December, 2024 - Present Assists with the consulting design elements for teams in a class robotics competition Evaluates team design progress reports and individual design assignments Research Assistant - Weather Mixing Analysis, Dr. Alyssa Avery September, 2024 – Present Investigates distinctions between traditional weather balloons and newer weather **UAVs** Utilizes CM1 model data to analyze Eulerian and Lagrangian methodologies for atmospheric transport and mixing processes Research Assistant – Rubidium Bose-Einstein Condensate, Dr. Yingmei Liu January, 2024 – June, 2024 Assisted with the development of a Bose-Einstein Condensate using ultracold rubidium gas to investigate electromagnetic sensitivities Research Assistant - Perfect Point E-Drill CRADA, Dr. Kurt Rouser August, 2023 - June, 2024 Collaborated with Tinker Air Force Base to improve the process and effectiveness of an electrical discharging machine used in the removal of fasteners and rivets from aircraft equipment ACTIVITIES AND LEADERSHIP NASA Micro-G NExT – International Space Station Team Member August, 2022 – July, 2023 Contracted by NASA to research, design, and test a mechanically powered, automatic zip-tie installer for use in a micro gravity environment OSU Mechanical and Aerospace Engineering Student Advisory Board August, 2024 - Present College of Engineering, Architecture, and Technology Student Council January, 2023 - Present OSU High Power Rocketry Team August, 2022 - Present OSU Student Government Association August, 2023 - Present Oklahoma A&M Board of Regents Student Representative Oklahoma Regents Board for Higher Education Student Representative Oklahoma State University Faculty Council Student Representative OSU Academic Standards and Policy Committee Student Representative 2025 Vice-President of Student Affairs Search Committee American Physical Society November, 2024 - Present

SKILLS / AWARDS

American Institute of Aeronautics and Astronautics

Oklahoma State University Chapter President

Additive Manufacturing MATLAB LabVIEW Wolfram Mathematica Python C++Subtractive Manufacturing Microsoft365 Simulink SolidWorks VBA 2025 OSU Cambridge Scholar