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Samuel Hiltz

EDUCATION

Oklahoma State University | Stillwater, OK
Bachelor of Science in Aerospace Engineering (BSAE)
Bachelor of Science in Mechanical Engineering (BSME)
Bachelor of Science in Applied Physics (BS)

Expected May 2026
3.299 GPA

WORK EXPERIENCE

- Teaching Assistant – MAE3153 Introduction to MAE Design**
 - Assisted with the design and implementation of mechanical engineering design elements for teams in a class robotics competition
 - Graded team design progress reports and individual mechanical design assignments
- Research Assistant – NASA Icing Sensor, Dr. Alyssa Avery**
 - Assisted with the development of an icing sensor for NASA and the American Physical Society
 - Developed a sensor to detect the formation of ice on UAV airfoils in given atmospheric conditions
- Research Assistant – Rubidium Bose-Einstein Condensate, Dr. Yingmei Liu**
 - Assisted with the development of a Bose-Einstein Condensate using ultracold rubidium gas
 - Lab group demonstrated that well-designed driven lattices are versatile tools to simultaneously tune multiple key parameters for manipulating phase diagrams of spinor gases with negligible heating and atom losses
- Research Assistant – Perfect Point E-Drill CRADA, Dr. Kurt Rouser**
 - Assisted with improving the process and effectiveness of an electrical discharging machine used in the removal of fasteners and rivets from aircraft equipment
 - Conducting project with oversight from, and in conjunction with, Tinker Air Force Base

ACTIVITIES AND LEADERSHIP

- NASA Micro-G NExT – International Space Station Team Member**
 - Was a member of an undergraduate team that was contracted by NASA to research, design, and test a mechanically powered, automatic zip-tie installer for use in a micro gravity environment.
- College of Engineering, Architecture, and Technology Student Council**
- OSU High Power Rocketry Team**
- OSU Student Government Association**
 - CEAT Senator
 - 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
- American Physical Society**
- American Institute of Aeronautics and Astronautics**
 - Oklahoma State University Chapter President

SKILLS

Manufacturing (Lathe, Mill, CNC, Welding, 3D Printing) MATLAB Python LabVIEW C++ Wolfram Mathematica
Microsoft365 Simulink SolidWorks VBA