

Ryan Bosley

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RESEARCH EXPERIENCE

- NASA Lunabotics Competition August – May 2024
- Engineering, 3D-printing, assembly, programming, and operation of lunar robot with a team of 4
 - Autonomously collects and dumps Lunar soil into form of a berm
 - Achieved 1st place in the first-year team category for demonstration
- Natural Language Processing Robot (NLP) August 2023 – Present
- Engineering, 3D-printing, assembly, programming and implementation of NLP robot
 - Interacts with home and manufacturing environments through voice command inputs
- VR-Rendered Stormwerx Research Laboratory October – November 2024
- Completed 360-degree scan of Harrisburg University's Stormwerx Research Laboratory for 3D and Virtual Reality (VR) tours
 - Secured grant funding for Harrisburg University
- VR-Rendered Harrisburg University April – December 2022
- Lead team of 5 students to complete 360-degree scan of Harrisburg University's campus for 3D tours and VR (Virtual Reality)

PROFESSIONAL EXPERIENCE

- Advanced Manufacturing Intern, Harrisburg University, Harrisburg, PA August 2024 – Present
- Conducts assembly, set-up, and programming of desktop 3D printers and Universal Robot arms
 - Operates FDM, metal, powder-bed, polyjet and resin printers to mass-produce products
- Lead Volunteer & Student Worker, Extended Reality Task Force, Harrisburg, PA March 2022 – Present
- Active member/lead volunteer of XR Task Force - Contributes 3D modeling skills
 - AR/VR operations and demonstrations for events such as medical conferences, Department of Defense conferences, faculty tours, and high school tours
- Lead Game Developer: 3D Modeling, Map Building, & User Interface August 2021 – Present
- Owner of "Iceland Games LLC", leads game development on the videogame platform ROBLOX
 - Spearheaded marketing campaign to successfully popularize 14 games into the top 500 out of five million released games
- Prototyping Engineer Intern, U.S. Army DEVCOM, Edgewood, Maryland June – August 2024
- Collaborated with a team of 3 to improve impact and water resistance for pipe valve sealings on U.S. Navy ships
 - Utilized SolidWorks to engineer 360 camera mounts for Boston Dynamics quadruped robot
 - Engineered cradles for chemical sensors attached to unmanned arial vehicles
 - 3D printed all engineered items with FDM, powder-bed, polyjet, and resin 3D printers

Expeditionary Manufacturing Intern, Harrisburg University, Harrisburg, PA December 2023 – April 2024

- Created manufacturing simulations through NVIDIA Omniverse Action Graph programming
- Teacher assistant: Lectured and guided class during absences of primary teacher

Exploration Outreach Assistant, Harrisburg University, Harrisburg, PA June – August 2022

- Teaching assistant for professors in leading STEM-themed VR summer camp
- Created 3D model of an Artificial Gravity Space Ring – spins at high speed to simulate gravity

Club SciKidz, Anne Arundel County, MD June - August 2020 & 2021

- Full-time counselor and project teacher at STEM-based summer camp for children ages 4-15
- Facilitated engaging activities including video game design, 3D printing, drone piloting

LEADERSHIP & COMMUNITY EXPERIENCE

Robotics Team Volunteer, Harrisburg University, Harrisburg, PA March 2024

- Presented 3D-printed and other mechanical components of NASA robot to high school students throughout Harrisburg metropolitan area

EDUCATION

GPA: 3.75

Harrisburg University of Science and Technology, Harrisburg, PA

May 2025

Bachelor of Science in Advanced Manufacturing

SKILLS

Hard Skills: SolidWorks, Fusion 360, 3D printing operations & post-processing, robotics design, programming & operation, Arduino & Raspberry Pi, factory simulations, Mixed Reality development & operations, Front End Development – HTML & CSS, Blender, Adobe Substance Painter

Soft Skills: Leadership, communication, problem solving, critical thinking, adaptability, hard-working, 180 WPM typing speed