Calvin J. Stahoviak

Albuquerque, New Mexico
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Master's student in Computer Science with expertise in autonomous robotics, AI, and ROS-based development. Strong desire for continuing research in robotic manipulation, novel algorithm development and SLAM-based systems.

Position: Research and Development Graduate Intern Year-Round **June 2024 – Present**
SANDIA NATIONAL LABORATORIES, Albuquerque, NM

- Developed experimental setup to test the reliability and accuracy of popular gesture recognition algorithms on moving robots.
- Assisted in development of object manipulation toolchain that utilizes PINNs.
- Developing exploration algorithm that utilizes object manipulation for clearing occluded space.

Position: Graduate Research Assistant **Aug 2023 – Present**
UNIVERSITY OF NEW MEXICO, Albuquerque, NM

- Developing suite of algorithms for stable cooperative lifting and transport via a swarm of mobile robots with fixed robotic arms. Algorithms take on ML or bio-inspired approaches.
- Leading a team of undergraduates in a project manager role.

Position: Research and Development Undergraduate Intern Year-Round **Apr 2019 – Aug 2022**
SANDIA NATIONAL LABORATORIES, Albuquerque, NM

- Implemented a motor control algorithm on Arduino hardware.
- Developed a model-based vision package for real-time rapid detection, segmentation and localization using RGBD sensor data (publication below).

EDUCATION

University of New Mexico, Albuquerque, NM **Aug 2023 – Dec 2025**
Degree Program: **Master of Science in Computer Science**
Cumulative GPA: 3.83

University of New Mexico, Albuquerque, NM **Aug 2018 – May 2022**
Degree Program: **Bachelor of Science in Computer Science**
Cumulative GPA: 3.47

Publications

- C. Young, C. Stahoviak, R. Kim and J. E. Slightam, "Rapid Constrained Object Motion Estimation based on Centroid Localization of Semantically Labeled Objects,"

Skill Set

C++, C, Python, Bash Script, Linux OS, Java | MATLAB, Simulink, Gazebo Simulation | ROS, Nav2, MoveIt, Pytorch, Tensorflow, YOLO, Arduino IDE, OpenCV, Conda, Docker, Git | Robotic Design Development & Performance Testing, Arduino Integration, Analog & Digital Sensor I/O, JLPT (~N3)