Kevin Torres

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Austin, TX

EDUCATION

The University of Texas at Austin, Austin, TX *May 2024*
Masters of Science, Mechanical Engineering
GPA *3.75*

The University of Texas at Austin, Austin, TX *May 2021*
Bachelor of Science, Physics (Radiation Option)
GPA *3.40*

EXPERIENCE

Nuclear and Applied Robotics Group Austin, TX May, 2021-Present
Graduate Research Assistant

- Developed robotic systems in a research lab for surveying radiation sources using mobile platforms
- Programmed **gamma-source localization algorithms** on Boston Dynamics Spot integrated with a **Compton camera**, enabling autonomous detection and mapping of radiation sources in hazardous environments.
- Engineered custom robotic modules (e.g., trailer system with alpha radiation detector) for **mission-critical survey tasks**.
- Integrated sensing technologies, robotic mobility, and autonomous logic to achieve full-room radiation detection and mapping

Pike Robotics, Austin, TX September, 2024-Present
Robotics Engineer

- Deployed **magnetically adhesive inspection robot** for nondestructive evaluation of industrial gas tanks.
- Automated data processing pipelines for inspection outputs, integrating images and point clouds into efficient analysis workflows
- Developed full-stack software for robotic inspection systems, spanning data collection, processing, and visualization
- Performed system diagnostics, **sensor validation**, and **field hardening** of robots to ensure reliable performance in operational environments.
- Streamlined inspection workflows by combining robotics, perception, and data analysis for actionable insights in gas tank assessments

Los Alamos National Laboratory, Los Alamos, New Mexico May, 2022-August, 2024
NUclear Robotics Engineering Intern

- Integrated **autonomous alpha-radiation survey robots** into nuclear facility operations.
- Designed and fabricated **x-ray tungsten shielding** for NDA imaging systems used in defense applications.
- Operated in **classified, high-security defense environments** requiring precision and reliability.

SKILLS

Software/Systems: ROS2, ROS, C++, Python, Behavior Trees, Docker, Linux (Ubuntu), MATLAB
Hardware/Integration: Embedded Electronics, Arduino, Raspberry Pi, Soldering, Sensor Fusion
Design/Prototyping: CAD (SolidWorks), Rapid Prototyping (3D Printing, Laser Cutting)
Special: Bilingual (English/Spanish), **DOE Q-Clearance**