JORDAN TARANTO

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EDUCATION

Bachelor of Science in Computer Science   Kansas City, MO

University of Missouri – Kansas City   August 2020 – May 2024

Security Clearance: Department of Defense - Secret (Active)

Skills: ROS, PX4, Docker, Python, SQL, C++, C, Linux, Docker, Hyper-V, Solidworks, AutoCAD, Codesys, Fanuc RoboGuide, Universal Robots

Certifications: PADI – Advanced Open Water Certification **24010G8277**, Enriched Air Diver **24010G8278**

WORK EXPERIENCE

Faculty Research Fellowship   Edwards, CA

United States Air Force Test Pilot School   May 2023 – August 2023

- Updated legacy PX4-Autopilot code to allow Programmable Test Inputs (PTI) for System identification (SID) testing of UAS via autonomous frequency sweeps.
- Developed and Updated Android application allowing students to input different parameters for PTI and send to UAS.
- Integrated the Test Pilots Schools ground stations to receive live telemetry data and a live video feed from the UAS using proprietary protocols.

Research Assistant   Kansas City, MO

Missouri Institute for Defense and Energy   August 2022 – Present

- Developed and implemented a Flight Envelope Supervisor utilizing numerical analysis to prevent Fixed Wing (FW) UAS platform from surpassing its limits while in flight.
- Implemented Docker to enable unit-testing for different parts of the overall software application on the FW platform.
- Integrating different sensors using Python and C++ for a sensor fusion algorithm for reconnaissance missions.

Military Operations Analyst   Alexandria, VA

Systems Planning and Analysis   May 2022 – August 2022

- Increased throughput of an agent-based monte-carlo simulation leading to a 1,200% increase in processing time.
- Validated agent-based monte-carlo simulation by creating multiple different tests and comparing gamma distributions
- Created a database using Python and SQL that helps schedule test dates for large assets

Leadership

Platoon Leaders Course | Aviation Candidate   Kansas City, MO

United States Marine Corps   January 2022 – Present

Outreach Chair   Kansas City, MO

American institute of Aeronautics and Astronautics   May 2022 – Present

Founder | President   Columbia, MO

International Society of Pharmaceutical Engineers   May 2019 – May 2020

Founder | Corresponding Secretary | Social Chair | Alumni Relations Chair   Columbia, MO

Phi Kappa Psi Fraternity - Missouri Alpha Chapter   August 2017 – May 2019