

SEAN WARD

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EDUCATION

Master's of Science in Mechanical Engineering May 2021

University of Missouri - Kansas City

- Emphasis in Robotics and Control Systems

Bachelor's of Science in Mechanical Engineering May 2020

University of Missouri - Kansas City

- Recipient of the NASA Missouri Space Grant Consortium Scholarship
- 3.86 GPA

EXPERIENCE

Founder and Robotics Engineer June 2021 - Current

Canyon View Technology

- Design, plan, and build autonomous aerial (UAVs) and ground (UGVs) vehicles using Ardupilot, PX4, Mission Planner, and QGroundControl
- Flight Controls, Vehicle Test and novel airframe development
- R&D work with focuses in mechatronic systems, robotics and prototyping

Graduate Research Assistant June 2020 - June 2021

University of Missouri - Kansas City

- Developed novel method of Inverted Quadrotor Descent for the The U.S. Army CCDC
- Designed experiments, custom hardware, Python, C++, and Matlab software to progress the project
- Research published in AIAA SciTech Conference (Jan 2022), the world's largest event for aerospace research, development, and technology

Operations Intern Feb 2019 - June 2020

Pentair Manufacturing

- Designed and implemented various projects to improve manufacturing processes
- Design for manufacturing with emphasis on welding, burning, plasma cutting, and CNC Machining

TECHNICAL STRENGTHS

Computer Languages Python, MATLAB, C++

Software & Tools Ardupilot, Arduino, Raspberry Pi, ROS, PX4, Solidworks

CERTIFICATIONS

FAA Certified Remote Pilot

Certified Solidworks Mechanical Design Associate

Certified Solidworks Additive Manufacturing Associate

UMKC Online Teaching Certification