

Evan Palmer

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EDUCATION

Oregon State University 2022 – 2027 (expected)

Ph.D., Robotics, 4.0 GPA

Advised by Dr. Geoffrey Hollinger

University of Nebraska-Lincoln 2018 – 2022

B.S., Software Engineering, Highest Distinction, 3.98 GPA

Advised by Dr. Brittany Duncan

RESEARCH EXPERIENCE

Robotic Decision Making Lab (RDML) 2022 – Present

Graduate Research Fellow

- Creating new safe motion planning and whole-body control algorithms for high degree-of-freedom systems.

Nebraska Intelligent Mobile Unmanned Systems (NIMBUS) Lab 2020 – 2022

Undergraduate Research Assistant

- Created [pymavswarm](#), a Python library for developing swarm algorithms and for deploying drone swarms to field environments.
- Successfully designed and deployed a novel multi-agent collision avoidance algorithm using reachability analysis.
- Advanced Human-Robot Interaction research by creating an sUAS pilot proficiency determination system using distancing algorithms and spectral analysis.

INDUSTRY EXPERIENCE

Marble Technologies 2022

Robotics Engineer Intern

- Developed a ROS 2 robotic manipulation system for the food processing industry.
- Delivered an MVP in three months, supporting demonstrations leading to pre-orders and a \$10M Series A.
- Supported hiring and networking efforts by facilitating meetings leading to one core Senior Engineering hire and collaborations with academic partners.

Raytheon BBN Technologies

2021

Software Engineer Intern

- Developed swarm technologies used by United States Air Force Academy and West Point cadets for integrating innovative offensive and defensive robot swarm tactics.
- Supported integration of small fixed-wing aircraft into the DARPA OFFSET program which successfully demonstrated deployment of a swarm with over 100 robots to a field environment.

AWARDS

National Defense Science and Engineering Graduate (NDSEG) Fellowship	2022
Outstanding University of Nebraska-Lincoln Software Engineering Senior Award	2022
University of Nebraska-Lincoln Lockard Scholarship	2020
University of Nebraska-Lincoln Regents Scholarship	2018

PROFESSIONAL SERVICE

IEEE Robotics and Automation Letters (RA-L) Reviewer	2023
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MENTORSHIP

John Delfosse (Undergraduate at University of Nebraska-Lincoln, NSF REU)	2022
Mikil Foss (Undergraduate at University of Minnesota Twin Cities)	2022

OUTREACH

Junior Science and Humanities Symposium Mentor	2022
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- Mentored high school students working to compete at the Junior Science and Humanities Symposium.

Nebraska Hour of Code	2021
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- Created and led a robotics activity to teach K-8 students from across Nebraska about the field of robotics.

Admitted Student Day – Drones and Robotics	2021
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- Spoke to 100 high school seniors about undergraduate majors and research opportunities at the University of Nebraska-Lincoln.

PUBLICATIONS

PEER-REVIEWED JOURNAL PUBLICATIONS

- S. Kunde, **E. Palmer**, and B. Duncan, “Recognizing User Proficiency in Piloting Small Unmanned Aerial Vehicles (sUAV)”, *IEEE Robotics and Automation Letters (RA-L)*, 2022

SKILLS

Programming Languages: C++, Python, Java, C

Software: MATLAB, Autodesk Eagle, Autodesk Inventor, Adobe Premier, Blender, Jira, Asana

Libraries & Tools: ROS, ROS 2, KDL, MoveIt2, ros2_control, Tensorflow, pytorch, GitHub Actions, Docker, Gazebo, ZeroMQ, Linux, OpenCV, Git, AWS, ArduPilot, PX4, Qt

Development Processes: Agile, Kanban,