Evan F. Palmer

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https://evan-palmer.github.io

Research Interests

motion planning, trajectory optimization, machine learning, optimal control, dynamics, field robotics, nonlinear systems, mobile manipulation, robust control, adaptive control

Education

Oregon State University — Sep. 2022 – Present
Ph.D. in Robotics, expected 2027 — Thesis: *Autonomous Free-Floating Manipulation in the Wild*
M.S. in Robotics, expected 2024 — Thesis advisor: Prof. Geoffrey Hollinger

University of Nebraska-Lincoln — Aug. 2018 – May 2022
B.S. in Software Engineering — Graduated with Highest Distinction

Professional Experience

Graduate Research Fellow, Robotic Decision Making Lab — Sep. 2022 – Present
Oregon State University — Corvallis, OR

Robotics Engineer Intern, Robotics Team — Apr. 2022 – Oct. 2022
Marble Technologies — Lincoln, NE

Undergraduate Research Assistant, NIMBUS Lab — Jan. 2020 – Aug. 2022
University of Nebraska-Lincoln — Lincoln, NE

Software Engineer Intern, DARPA OFFSET Team — May 2021 – Aug. 2021
Raytheon BBN Technologies — Cambridge, MA

Grants and Fellowships

National Defense Science and Engineering Graduate (NDSEG) Fellowship — 2022

University of Nebraska-Lincoln Lockard Scholarship — 2020

Army War College Foundation Scholarship — 2020

University of Nebraska-Lincoln Regents Scholarship — 2018

Awards and Honors

Outstanding Software Engineering Senior Award, University of Nebraska-Lincoln — May 2022

Dean's List, University of Nebraska-Lincoln College of Engineering — Aug. 2018 – May 2022

Professional Service

ROS Maritime Community Working Group Co-Organizer — Apr. 2024 – Present

Northwest Robotics Symposium Session Co-Chair — Apr. 2024

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

PUBLICATIONS

All publications are available online at:
https://evan-palmer.github.io/#/publications

Journal Articles

1. 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.

Refereed Conference Papers

2. H. Kolano, **E. Palmer**, and J. Davidson, "The Coupling Effect: Experimental Validation of the Fusion of Fossen and Featherstone to Simulate UVMS Dynamics in Julia", *OCEANS*, Halifax, Canada, 2024.

1. **E. Palmer**, C. Holm and G. Hollinger, "*Angler*: An Autonomy Framework for Intervention Tasks with Lightweight Underwater Vehicle Manipulator Systems", *IEEE International Conference on Robotics and Automation (ICRA)*, Yokohama, Japan, 2024.

TECHNICAL SKILLS

C++, Python, Java, C, MATLAB, Autodesk Eagle, Autodesk Inventor, Blender, Jira, Asana, ROS, ROS 2, GitHub Actions, Docker, Linux, Agile, Kanban