JUSTIN WASSERMAN

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Interests: Robotics, Embodied Agents, Computer Vision

EDUCATION

University of Illinois at Urbana-Champaign   August 2019 - Present
Ph.D. in Electrical and Computer Engineering
· Advisor: Prof. Girish Chowdhary

University of Illinois at Urbana-Champaign   August 2014 - May 2019
Bachelor of Sciences (B.S) in Computer Engineering
· Advisor: Prof. Steven LaValle

PUBLICATIONS

Last-Mile Embodied Visual Navigation
J. Wasserman, K. Yadav, G. Chowdhary, A. Gupta, U. Jain.
Conference on Robot Learning (CoRL), 2022   [project] [pdf]

A Hardware and Software Testbed for Underactuated Self-Assembling Robots
A. Nilles, **J. Wasserman**, A. Born, C. Horn, J. Born, S. LaValle.
IEEE International Symposium on Multi-Robot and Multi-Agent Systems (MRS), 2019   [pdf]

Under-Canopy Dataset for Advancing Simultaneous Localization and Mapping in Agricultural Robotics
J. Cuaran, A. Velasquez, M. Gasparino, N. Uppalapati, A. Sivakumar, **J. Wasserman**, M. Huzaifa, S. Adve, G. Chowdhary
Under Review at IEEE International Conference on Robotics and Automation (ICRA), 2023

TALKS AND AWARDS

EAI Seminar, Facebook AI Research Labs (FAIR)   2022
Last-Mile Embodied Visual Navigation   [slides]

Undergraduate Research Symposium, UIUC   2019
Controlling, Modeling, and Scaling Underactuated, Non-deterministic Robot Structures

Leung Student Venture Fund Award   2019
· Awarded $1000 to support research in robotics for undergraduate thesis.

INDUSTRY EXPERIENCE

EarthSense   May 2019 - August 2019
Deep Learning Intern   *Champaign, IL*
· Applied deep learning techniques to agriculture data to assist the TerraSentia robot in localization and analysis of data.

Arity   January 2018 - May 2018
Software Engineering Intern   *Chicago, IL*
· Translated high-level motion data from a car to movement on a testbed robot to create a platform to demonstrate the captured motion data.

Yaskawa America Inc.   May 2016 - January 2017
Applications Engineering Co-Op   *Waukegan, IL*
· Built software library for motion applications for gantries, Cartesian robots, robotic arms, and other robotics applications.

TECHNICAL STRENGTHS

Computer Languages Python, Shell Scripting, C++, C, IEC 61131-3
Computing Pytorch, ROS, Linux, Git, Vim, LaTeX

TEACHING

ECE 110 Spring 2022
Teaching Assistant *Urbana-Champaign, IL*
· Led and supervised four 20-student lab sections.

ENG 298 LRM Fall 2015, Fall 2017
Teaching Assistant *Urbana-Champaign, IL*
· Taught collegiate students how to mentor middle school-aged students in Lego robotics and First Tech Competition.
· Communicated with local teams, coaches, and students to organize mentorships.