JORDAN COUSINEAU

cousineau.jordan24@gmail.com | (503) 856-4523 | www.linkedin.com/in/jordancousineau

EDUCATION

Boston University — Boston, MA
Master of Science, Robotics and Autonomous Systems — Jan 2026
Coursework: Soft Robotics, Motion Planning, Image/Video Processing, Embedded Systems, Advanced Dynamics

Pacific University — Forest Grove, OR
Bachelor of Science, Mathematics Minor: Computer Science — Aug 2024
Coursework: Linear Algebra, Multivariable Calculus, Probability & Statistics, Data Structures, Databases

SKILLS

Programming Languages: Python, C++, C, Bash, SQL, PHP, CSS, JavaScript
Tools: Git, MATLAB, RStudio, Linux, ROS2, SQL, PyTorch, NumPy, Matplotlib
Leadership: FIRST Robotics Volunteer, Lead Teacher, Teaching Assistant, Assistant Coach

EXPERIENCE

Robotics Controls & Systems Engineer — Boston, MA
MyRide (Early-Stage) — Dec 2025 - Present
- Validated ROS 2 vehicle control pipelines interfacing with CAN bus via CANable and OSCC hardware
- Integrated joystick-based teleoperation to CAN command translation for autonomous and manual driving modes
- Supported vehicle bring-up through bench testing and preparation for on-vehicle hardware installation

Lead Weekend Coordinator — Cambridge, MA
The Robo Hub — Oct 2024 - Present
- Direct all weekend operations in a fast-growing robotics education startup, coordinating staff, supplies, and timelines for multiple simultaneous events serving 30+ clients each weekend
- Manage end-to-end logistics: maintain inventory, order event supplies, and track usage for cost control
- Build scalable processes from ground up, creating and standardizing SOPs for order forms, inventory management, and troubleshooting to support rapid growth
- Conduct performance evaluations and provide feedback on weekend events to improve quality and increase overall profitability

Robotics Research & Development Intern — Boston, MA
Boston University — Jun 2025 - Aug 2025
- Deployed a PyQt5 GUI to streamline backend ROS2 command execution, reducing need for students to interact directly with ROS2
- Designed and implemented a multi-robot workspace management system enabling users to partition the motion capture-tracked floor, ensuring safe operation in lab space
- Integrated control barrier functions with motion capture localization to enforce partition boundaries and automatically correct commands for multi-robot operation

PROJECTS

Solar UAV/VTOL Path Planning and Optimal Control Research — Sep 2025 - Present
- Developing a global path planning algorithm using an octree graph, a custom heuristic, and integer programming to optimize scheduling of the phases of flight
- Utilizing model predictive control (MPC) for real-time planning and control, informed by reinforcement-learned optimal policies
- Simulating long-distance solar-powered flight under varying environmental conditions using prior years weather

Event Booking and Payment Automation Platform — Aug 2025 - Present
- Deployed a WordPress-based booking system integrating Gravity Forms and Stripe to automate event scheduling and deposits
- Streamlined event booking workflows, reducing manual coordination and payment errors
- Troubleshot and resolved live booking and payment issues to ensure uninterrupted event operation