

Matthew Westbrook

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RESEARCH INTERESTS	Artificial Intelligence, Robotics, Motion Planning, Controls.	
EDUCATION	M.S. Mechanical Engineering University of New Hampshire (GPA 3.83/4.00) Research on shared control for mobile robot obstacle avoidance.	2018 - 2020
	B.S. Mechanical Engineering University of New Hampshire (GPA 3.23/4.00)	2014 - 2018
PUBLICATIONS	Matthew Westbrook and Wheeler Ruml, "Anytime Kinodynamic Motion Planning using Region-Guided Search," <i>Proceedings of the IEEE/RSJ Conference on Intelligent Robots and Systems (IROS)</i> , 2020.	
RELEVANT COURSES	Planning for Robots Introduction to Artificial Intelligence Algorithms Introduction to Mobile Robots Non-linear Controls Robust and Optimal Controls Advanced Controls I/II	
TECHNOLOGY SKILLS	<i>Programming Languages:</i> C, C++, Python. <i>Robotics:</i> ROS, Raspberry Pi, Micro-controllers. <i>Web :</i> HTML, CSS, Javascript.	
EXPERIENCE	<i>Production Engineer</i> Beswick Engineering <ul style="list-style-type: none">• Developed internal ERP software.• Automated production work processes.	May 2018 - August 2020
	<i>Healthcare Specialist (Medic)</i> Army National Guard <ul style="list-style-type: none">• Provided medical support for infantry unit.• Gained leadership skills and experience working under stress and time constraints.	June 2012 - June 2020
	<i>Engineering Intern</i> General Electric Aviation <ul style="list-style-type: none">• Automate manufacturing processes.	May 2017 - August 2017
PROJECTS	<i>UNH Lunacats: Graduate Advisor, Former Mechanical Lead</i> Design and build robot for NASA Robotic Mining Competition (RMC)	2018 - 2020