Kevin Robb

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EDUCATION		
The University of Oklaho B.S. Engineering Physics, 1	cs, with CS Concentration obotics, Robot Sensing & Navigation	2021–2023
TECHNICAL KNOWLEDG	E	
Languages: Software: Theory: Other:	Python, MATLAB, R/Rmd, C/C++, Java, JavaScript Ubuntu Linux, Git, Robot Operating System (R Probabilistic Robotics, Kalman Filtering, Evolutionary CAD/3D-Printing, Soldering, Machine Shop	OS), OpenCV Computation
Work Experience		
NSF Research Assistant wi Experimented with the Applied evolutionary consimulated mobile robot Published a paper in Ti Office of Admissions & R Campus Tour Guide Tear Led general walking tou	relationship between nurturing and risk in a simulated per omputation techniques to optimize Kalman Filter parameter in changing environments (outperforming manual tuning HURJ 2019, a student journal at the University of Oklaho ecruitment, University of Oklahoma, Norman, OK	ters for a). ma. 2018–2021
Projects		
autonomously using froWrote ROS node to det of all global tag poses in	botics Course @ NEU e for a turtlebot3 to map any closed environment ntier exploration and the Cartographer SLAM package. tect AprilTags in the environment and produce a correct l n SE(3), leveraging multiple measurements via GTSAM. article filter using Monte Carlo localization and EDT.	Fall 2021
•	le Competition, Auto-Nav Challenge	2020-2021
Led a team of 7 studenDeveloped an ExtendedDesigned CAD assembl	ts in building a 3'×4' autonomous vehicle. Kalman Filter to perform on-the-fly localization. y of the robot and custom-printed sensor mounts. kie of the Year at the 2021 IGVC.	
National Robotics Challe	nge, Autonomous Vehicle Competition	2019 – 2020
known course autonome • Produced navigation sy	tecture for a small race car that was able to complete a busly in minimal time. stem to generate a trajectory and follow it using Pure Puntroller to publish commanded headings and velocities.	rsuit.
Awards & Activities		
• Won 2nd place in Hack	ser Award and 2020 Campus Life Award at the University lahoma 2021, and 3rd place in Hacklahoma 2020. 19 Hacklahoma project that instills a care for honeybees v	

• Participated in the ACM International Collegiate Programming Competition, 2017–2020.

• FIRST Tech Challenge alumni and volunteer.