Kevin Robb

Boston, MA, 02445 | 682-227-5063 | kevin.robb@alumni.ou.edu | kevinrobbdesigns.com Available: May – Dec. 2022

Education		
Candidate for M.S Related courses: M The University of B.S. Engineering F	versity, Boston, MA S. Robotics, with CS Concentration Mobile Robotics, Robot Sensing & Navigation Oklahoma, Norman, OK Physics, B.S. Mathematics Summa cum Laude Applied Statistical Methods, Abstract Linear Algebra	2021–2023
TECHNICAL KNOW	WLEDGE	
Languages: Tools: Skills:	Python, R, MATLAB, C/C++, Java, JavaScript, LaTeX, Bash Ubuntu Linux, Git, Robot Operating System (ROS), CAD/3D-Machine Learning, Probabilistic Robotics, Kalman Filtering	-Printing
Work Experien	CE	
NSF Research Ass • Experimented • Applied evolution simulated mobile • Published a particle of Admission Campus Tour Guide • Led general was	on, Adaptation, and Learning Laboratory, Norman, OK sistant with Dr. Dean Hougen with the relationship between nurturing and risk in a simulated positionary computation techniques to optimize Kalman Filter parametrile robot in changing environments (outperforming manual tuning) per in THURJ 2019, a student journal at the University of Oklahorons & Recruitment, University of Oklahoma, Norman, OK de Team Lead alking tours and personalized visits for prospective students and far son shift, oversaw interviews, and trained new guides.	ers for a
	L. D. L. d'an Commun @ NEU	
 Developed soft autonomously Wrote ROS no of all global tag 	ware base for a turtlebot3 to map any closed environment using frontier exploration and the Cartographer SLAM package. de to detect AprilTags in the environment and produce a correct lig poses in SE(3), leveraging multiple measurements via GTSAM. ustom particle filter using Monte Carlo localization and EDT.	Fall 2021 ist
Intelligent Ground	d Vehicle Competition, Auto-Nav Challenge	2020-2021
Developed an IDesigned CAD	7 students in building a 3'×4' autonomous vehicle. Extended Kalman Filter to perform on-the-fly localization. assembly of the robot and custom-printed sensor mounts. and Rookie of the Year at the 2021 IGVC.	
_	Challenge, Autonomous Vehicle Competition	2019-2020
known course a • Produced navig	OS architecture for a small race car that was able to complete a autonomously in minimal time. gation system to generate a trajectory and follow it using Pure Pure PID controller to publish commanded headings and velocities.	rsuit.
Awards & Activ	VITIES	
	20 Campus Life Award and 2021 Letzeiser Award at the University in Hacklahoma 2021, and 3rd place in Hacklahoma 2020.	of Oklahoma.

Made Bee Clicker, a 2019 Hacklahoma project that instills a care for honeybees via a webgame.
Participated in the ACM International Collegiate Programming Competition, 2017–2020.

• FIRST Tech Challenge alumni and volunteer.