## Kevin Robb

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Education		
Related courses: M. The University of B.S. Engineering F	versity, Boston, MA . Robotics, with CS Concentration Iobile Robotics, Robot Mechanics & Control Oklahoma, Norman, OK Physics, B.S. Mathematics   Summa cum Laude pplied Statistical Methods, Abstract Linear Algebra	2021–2023 2021
TECHNICAL KNOV	VLEDGE	
Languages: Tools: Skills:	Python, R, JavaScript, C/C++, Java, LaTeX, HTML/CSS Ubuntu Linux, Robot Operating System (ROS), Git, CAD/3D- Evolutionary Computation, Kalman Filtering, Probabilistic Rol	_
Work Experience	CE	
<ul> <li>Experimented v</li> <li>Applied evoluti simulated mobi</li> <li>Published a particle</li> <li>Office of Admission</li> <li>Campus Tour Guid</li> <li>Led general was</li> </ul>	istant with Dr. Dean Hougen with the relationship between nurturing and risk in a simulated po onary computation techniques to optimize Kalman Filter paramet le robot in changing environments (outperforming manual tuning) per in THURJ 2019, a student journal at the University of Oklahons & Recruitment, University of Oklahoma, Norman, OK de   Team Lead lking tours and personalized visits for prospective students and far son shift, oversaw interviews, and trained new guides.	ers for a
<ul><li>Developed softwattonomously was Wrote ROS not of all global tag</li></ul>	bile Robotics Course @ NEU 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 li g poses in SE(3), leveraging multiple measurements via GTSAM. ustom particle filter using Monte Carlo localization and EDT.	Fall 2021 ist
Intelligent Ground	l Vehicle Competition, Auto-Nav Challenge	2020-2021
<ul><li>Developed an E</li><li>Designed CAD</li></ul>	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.	
National Robotics 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 Pur PID controller to publish commanded headings and velocities.	rsuit.
Awards & Activ	TITIES	
	0 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.