

SYSC 4907 – Fall 2026/Winter 2027

Supervisor	Chao Shen
Co-supervisor	
Course section	SYSC 4907 N
Project ID	N1
Project title	Autonomous Robotic Applications
Project description	<p>The students propose a robotic application, e.g., autonomous driving, search and rescue, pick and place, etc., then select the hardware to build a robot with necessary sensors/actuators, e.g., mobile robot, drone, robotic manipulator, etc., define the task(s), and design the autonomous control system (including perception, navigation, motion planning, and motor control) for the robot to perform the task(s).</p> <p>PS: There can be multiple groups with different robotic applications.</p>
Program(s)	Computer Systems Software Electrical
Maximum number of students	5
Meeting time with supervisor (optional)	Weekly meetings, 30min – 1 hour
Do you want the student to contact you before the office assign this project to them ? (Yes/No)	Yes.