

IND 2133 : ROBOTICS

In this course students will become familiar with Embedded Robotics. Students will learn programming of embedded controllers, interfacing of sensors (inertial measurement unit, light & color, and color video camera), the actuation of servo motors, serial communications, and the control of autonomous robotics systems. Students will practice lower-level programming using the C language. Concepts and methodologies will be demonstrated in class with sample code and the students will expand on these further during in class exercises. Upon completion of this course, students will have an integrated hardware/software understanding of embedded robotic systems in preparation for application in the workplace.

Credits 3

Lecture Hours 3

Lab Hours 0

Corequisites

IND 1033