Project Examples Fall 2015 and Spring 2016

Robotics

Baxter       Program for Application – pick and place of Colored Golf Balls – Sort the balls according to color.

Turtlebot    Mobile Robot Obstacle Avoidance
Use with Kinect for depth and vision
Moving Object Following (Based on Kinect)

Robot Apps and Software – ROS Networking for TurtleBot using Ad-hoc network

Fall 2016

Obstacle Avoidance Robot controlled by Bluetooth module and IR remote

Bluetooth based Robot for Metal Detection Applications

Arduino Operated Obstacle Avoidance Robot

Pesticide Spraying Drone - Design

Design of Unmanned Aerial Vehicle for Automated Delivery

Mapping and Localization with Turtlebot

Brain Wave Control of Turtlebot

Altera SDK for OpenCL SOC-FPGA Programming