

Education

Boston University, College of Engineering <i>Master of Science in Electrical and Computer Engineering (Robotics Specialization)</i>	Boston, MA Dec 2019 Exp.
University of Science and Technology of China <i>Bachelor of Science in Physical Electronics, School of the Gifted Young</i>	Hefei, China June 2018

Experience

Research Assistant , University of Notre Dame, Notre Dame, IN <ul style="list-style-type: none">Implemented and processed all experiments data.Explored and designed Binarized algorithm for Deconvolution-Based Generators.	Summer 2017
Teaching Assistant , Peking University, Beijing, China <ul style="list-style-type: none">Conducted weekly lectures in Calculus for an Economics course.	Summer 2016
Research Assistant , National Tsing Hua University, Hsinchu, Taiwan <ul style="list-style-type: none">Conducted experiments and explored modelling for paper twisting patterns.	Spring 2016

Projects

Robotic Arm Control in Gazebo , Boston, MA <ul style="list-style-type: none">Designed and Built a Robotic Arm with ROS in gazebo with a team of four.Implemented PCL and PointNet to process point cloud data for semantic segmentation.Implemented motion planning and control for the robot with Moveit.Integrated Alexa interface that allowed users to control Robotic Arm with their voice.	Fall 2018
FPGA based BNN Acceleration , Hefei, China <ul style="list-style-type: none">Implemented Binarized Convolutional Neural Networks(BNN) in a FPGA device(Xilinx ZedBoard).Achieved 93% Accuracy on ASL FingerSpelling dataset.Achieved 70 frames/secs processing speed for a 9-layer-BNN within only 2.4W power supply.	Spring 2018
PBGen , Notre Dame, IN <ul style="list-style-type: none">Explored and designed Partial Binarized algorithm for Deconvolution-Based Generators.Achieved 25x saving in memory and 1.9x speed up with little performance loss.Published as second author, see the paper at arxiv.org/pdf/1802.09153.	Summer 2017
Eye Tracking System , Hefei, China <ul style="list-style-type: none">Designed and built a system with helmet, Lidar and camera that track the user's gaze point.Used infrared camera integrated in the helmet to catch eye's movements.Implemented sensor fusion algorithms for IMU and Vive Lighthouse to get the helmet's 6DoF.Controlled a Pan-Tilt Camera to follow the user's gaze point.Designed and built auto calibration system for the helmet and pan-tilt camera.	2015 - 2016

Skills

Programing Languages: Python, C/C++, MATLAB, LabVIEW
Developing Experience: ARM Cortex-M4 based on Kinetis K60, Xilinx ZedBoard
Others: Linux, ROS, PCL, Git, Makefile, Xilinx SDSoC and VivadoHLS