

Archit Gajjar

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RESEARCH INTERESTS	<ul style="list-style-type: none">• Approximate Design on Fog/Edge System• Energy-Quality (E-Q) Tradeoff on ASIC/FPGA Design• Internet of Things (IoT) & Embedded Systems	
EDUCATION	University of Houston - Clear Lake , Houston, TX M.S., Computer Engineering	Expected: December 2018 GPA: 3.9/4.0
	Dhirubhai Ambani Institute of Information and Communication Technology , Gujarat, India B.Tech., Information and Communication Technology	2016 GPA: 5.6/10.0
WORK EXPERIENCE	Research & Teaching Assistant CENG3316 Electronics & CENG3116 Lab for Electronics & CENG5534 ADSD Department of Engineering University of Houston Clear Lake (UHCL)	August 2017 – Present
	System Developer Intern Inweon IT Innovations Pvt. Ltd. Greater Noida, India Using Visual Studio and OpenCV, a code was developed to find the length of rice from the provided image. Later, Raspberry pi micro-controller was set up to perform the code remotely.	May 2015 – October 2015
	Intern QX KPO Services Pvt. Ltd. Ahmedabad, India For one month, gained knowledge about OSI (Open Systems Interconnection) model in the field of network and communication along with practical implementation.	December 2014 – January 2015
SKILLS	Programming Languages: <ul style="list-style-type: none">• Verilog, VHDL, Python, C, C++ Tools: <ul style="list-style-type: none">• Arduino, Keil, LTSpice, Raspberry Pi, Beagle Bone Black, OpenCV, Vim, Latex, FPGA, NI Multisim, ModelSim, MATLAB, Vivado	
PUBLICATIONS	<ul style="list-style-type: none">• A. Gajjar, X. Yang, etc., "An FPGA Synthesis of Face Detection Algorithm using HAAR Classifiers," Intl. Conference on Algorithms, Computing and Systems (ICACS2018), Accepted, 2018.• X. Yang, L. Wu, A.Gajjar etc., "A Vision of Fog Systems with Integrating FPGAs and BLE Mesh Network," Intl. Conference on Algorithms, Computing and Systems (ICACS2018), Accepted, 2018.• Y. Zhang, X. Yang, A. Gajjar, etc., "Exploring Slice-Energy Saving on An Video Processing FPGA Platform with Approximate Computing," Intl. Conference on Algorithms, Computing and Systems (ICACS2018), In Press, March, 2018.	

	<ul style="list-style-type: none"> • Y. Zhang, X. Yang, A. Gajjar, etc., "Hierarchical Synthesis of Approximate Multiplier Design for Field-Programmable Gate Arrays (FPGA)-CSRmesh System," Intl. Journal of Compt. Applications (IJCA), Vol. 180, No. 17 PP. 1-7, Feb. 2018. • A. Gajjar, Y. Zhang, and X. Yang , "Demo Abstract: A Smart Building System Integrated with An Edge Computing Algorithm and IoT Mesh Networks," The Second ACM/IEEE Symposium on Edge Computing (SEC2017), Article No. 35, Oct. 2017. (doi>10.1145/3132211.3132462).
EVENT PRESENTATIONS	<ul style="list-style-type: none"> • X. Yang , Y. Zhang, A. Gajjar, H. Schmoyer, and N. Ly, "Learning-on-Chip: Facial Detection with Approximations of FPGA Computing," 2018 Robotics & AI Day, UHCL, Aug. 03, 2018. • A. Gajjar, X. Yang, "Poster presentation – A Wide Area IoT Mesh Network With Edge Computing," IEEE Innovation and Automation Conference, Guilruth ctr., NASA., October, 2017. • A. Gajjar, X. Yang, "Poster presentation – A Smart Home/Building System Integrated with An Edge Computing Algorithm and CSRmesh Networks," Houston Robotics and AI Day, July, 2017.
ACADEMIC PROJECTS	<ul style="list-style-type: none"> • Low Cost Security System Using Off the Shelf Components January 2016 – April 2016 A security system capturing image of an intruder and informing to the designated person. • Research Intern May 2016 – July 2016 Gained knowledge of Cadence Encounter, tickle files, optimization. • Surveillance Bot January 2015 – April 2015 A live video stream from a manually controlled surveillance robot. • 5-Stage Pipeline processor July 2014 – November 2014 Basic 5-stage pipelined processor development.
HONORS AND AWARDS	<ul style="list-style-type: none"> • Research Scholarship Award, Dr. Ted Leibfried Legacy, UHCL, July, 2018 (2/50 Students) • Graduate Student Ambassador, College of Science & Engineering, UHCL (2 Students out of CENG Program) 2018 • Phi Kappa Phi Honor Society Invitation, UHCL, March, 2018 • Research/Teaching Assistant Scholarship, UHCL, 2017-2018 • NSF Student Travel Grant Award from SEC, 2017 • Leadership Honor, Omicron Delta Kappa(ODK), Hilary Jo Karp Circle Honor Society, November 2017
VOLUNTEER EXPERIENCE	<ul style="list-style-type: none"> • International Student Orientation Leader, UHCL 2017 • IEEE Member 2013 – Present <ul style="list-style-type: none"> – Leader of Special Interest Group on Microcontrollers, IEEE SB DA-IICT – I’Fest, Mentor, IEEE SB DAIICT – TENSYP’15 Volunteer, Region 10 IEEE International Conference, India – I’Fest, Event Coordinator – Teaching Assistant, Workshop on Embedded System and Arduino, PDP, India