TIMOTHY JOSHUA DY CHUA

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Work Experience_____

Anritsu PH - Junior FPGA Engineer   Technohub, Diliman
TECH STACK: Verilog, ModelSim, QuestaSim, Vivado   *Aug 2018 – Present*
• Designed modules in development of 400G Ethernet and USB 3.2 Protocol
• Worked in a team of three to implement projects
• Collaborated with teams from Japan in project development
• Participated in business trips to Japan to perform instrument testing of company devices
• Initially trained in Japan for three months to prepare for the demands of the development cycle

Computing Laboratory Student Assistant   EEEI, UP Diliman
TECH STACK: *Aug 2017 – May 2018*
• Set up and configured to ready computers for laboratory use
• Debugged hardware and software problems for the laboratory computers

Laboratory Class Student Assistant   EEEI, UP Diliman
TECH STACK: Trello   *Jan 2018 – May 2018*
• CoE 134 Software Engineering
• Assisted Professor Nestor Tiglao in handling of 20 students
• Prepared activities, reports and presentations

Engineering Intern   Sparklab Innovation Center
TECH STACK: Circuit Soldering, C, Circuit Design   *Jan 2018 – May 2018*
• Constructed a system of speakers that are motion activated
• Vocalisations: A soundscape in Greenbelt Park by Teresa Barrozo

Education_____

UP Diliman, CUM LAUDE   Diliman, Quezon City
B.S. Computer Engineering   *June 2013 – June 2018*
• Relevant Coursework: CS 180 Artificial Intelligence, EEE 11 Programming Fundamentals, CoE 134 Software Engineering, EEE 13 Programming Applications in Electrical and Electronics Engineering
• University Scholar 1st Semester of AY 2017-2018

Projects_____

Hardware Accelerated Vehicle Detection Using Computer Vision for a Dynamic Traffic System
TECH STACK: Python, C++, C#, TCP, Vivado HLS, Raspberry PI, Zynq 7000 FPGA
• Integrated Computer Vision and Vehicle Traffic Simulation using SuMO
• Implemented Computer Vision on Raspberry Pi using OpenCV
• Used SVM and Histogram of Oriented Gradients Feature Extraction
• Team Leader in a group of three

Seminars_____

Singapore AI Summer School   NUS, Singapore
TECH STACK: Deep Learning, NLP, CV, Reinforcement Learning   July, 2019
• Learned about state of the art techniques and current problems of deep learning for a week
• Participated in a workshop, "Ocean Protocol & Connected Life"
• https://medium.com/p/afcc08a96376/edit