JESSICA ALICE LEE

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EDUCATION

CORNELL UNIVERSITY
BS, Double Major in Electrical Engineering and Computer Science: GPA 3.46 Expected Graduation: December 2019

WORK EXPERIENCE

Intel
Non-Volatile Storage Group Intern – *Summer 2019*
- Locally validated new product features on variations of wafer and die products
- Automated extraction of analog data from datalogs generated by local validation and execution of pre-existing verification/validation scripts
- Updated and unit-tested wafer/die-level validation scripts as conversion from Python 2 to Python 3

Northrop Grumman
Test Design Engineering Intern *– Summer 2018*
- Contributed to software development for TIMw (Test Instrument Middleware) as part of test standardization effort
- Designed and developed new tool to streamline TIMw deployment to various programs
- Developed temperature sensor, oscilloscope, and DMM drivers in support of test program set development
- Implemented unit tests to validate instrument driver interfaces

Johnson & Johnson
Software Engineering Co-op *– Summer 2017 - Fall 2017*
- Integrated mobile applications extensively with backend data via JSON and RESTful API
- Contributed to Android feature/product development using frameworks such as Retrofit, Realm, Butterknife, RxJava
- Cooperated with UX designers, product owners, software architects, and backend developers in Agile environment

Cornell University
Teaching Assistant *– Fall 2016 - Spring 2017*
- Assisted professor and other staff with CS1110, an introductory programming class focusing on basic OOP in Python
- Aided students in understanding course concepts through office hours, lab supervision, and grading of coursework

EXTRACURRICULARS

Shell Eco Marathon
Team Member *– Fall 2016 - Spring 2018*
- Enabled and programmed BMS script with STM32F4 MCU as interface for DAQ, motor-controller, and vehicle dashboard
- Researched, analyzed, documented potential BLDC motors regarding vehicle's mechanical and electrical power requirements
- Implemented interfaces with BMS controller and LCD screen; implemented sensors including Hall effect and heat

Cornell University
Engineering Peer Advisor *– Fall 2016*
- Collaboratively planned and developed lessons and tours for incoming freshmen
- Advised students on degree-specific programs and career or educational goals

Cornell Cup Robotics
Team Member *– Fall 2015 - Spring 2015*
- Programmed library and implemented IR sensor for modular cart using Intel Edison Microcontroller

SKILLS

Languages: Python, Java, SystemVerilog, C, MATLAB, C#, C++, Kotlin, XML, Git, HTBasic (RM-Basic), MS-DOS (batch scripts)
Devices: STM32F4 MCU, PIC32, Raspberry Pi, FPGA, Intel Edison, FRDM-K64F (ARM Cortex-M-based), Arduino.
IDE's: Eclipse, Visual Studios, Quartus, Matlab, Komodo Edit, Android Studio, LabWindows/CVI

COURSEWORK

Embedded Systems	Computer Architecture	Algorithms	Microcontrollers
Digital Logic	Artificial Intelligence	Data Structures / OOP	Operating Systems
Introduction to Circuits	Evolutionary Algorithms	Signals and Systems	Introduction to Microelectronics
Discrete Structures	Intelligent Physical Systems	Functional Programming	Human Computation

Probability for Random Signals and Systems
General engineering requirements: Physics, Chemistry, Mathematics