Alberto Li

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EDUCATION

Georgia Institute of Technology, Atlanta GA ***Expected Graduation: May 2019***

- Candidate for Bachelor of Science in Computer Engineering
- GPA: 3.91 / 4.00
- Certifications: Six Sigma Yellow Belt, LabVIEW CLAD

EXPERIENCE

Intel Corporation – SSD Test Development Intern Folsom, CA ***January 2018 – Current***

- Developed wrapper library to interface with the test platform's BIOS and BMC through the IPMI protocol
- Optimized read-write test algorithm for SSDs to dynamically allocate resources, increasing throughput by 5%
- Automated yield report generation and distribution for 3D XPoint Apache Pass persistent memory DIMMs

General Electric Oil & Gas – Embedded Systems Summer Intern Minden, NV ***May 2017 – August 2017***

- Developed advanced debugging system for monitoring device to help reduce product development time by 3 months
- Designed architecture and implemented client-server model design using QNX Real-Time Operating System for a multi-threaded C/C++ Server application and C#/.NET for a Client front-end GUI using Berkeley Sockets API

Florida Power & Light – Software Engineer Summer Intern Miami, FL ***May 2016 - August 2016***

- Designed and developed an application using Visual Basic as the front-end and SQL Server as the back-end for Customer Accounting to increase visibility and reporting capabilities to the process improvement team
- Exercised project management skills, scheduled demos and coordinated with the training department to set up job aids and training sessions for the release of the application in Southern and Central Customer Accounting
- Implemented the application incorporating the agile mindset, impacting a department of over 60 employees

Teaching Assistant (TA) for ECE 2031: Digital Design Lab at Georgia Tech Atlanta, GA ***January 2017 – May 2017***

- Facilitate a rapid-prototyping lab class dominated by FPGA projects by guiding students in their lab assignments
- Aid students in designing and validating digital logic using industry standard oscilloscopes and logic analyzers

Opportunity Research Scholars Program at Georgia Institute of Technology Atlanta, GA ***September 2016 – May 2017***

- Research in smart sensor packaging system for characterizing sensor-to-body interactions in wearable medical devices
- Tested and experimented with different sensor materials to conclude feasibility of detecting a biomedical sensor on a human body
- Implemented vibrational system using accelerometers and bone transducers to generate a heat map that would predict sensor location as a proof of concept

PROJECTS

Internet of Things (IoT) Smart Hedgehog Home ***August 2017 – December 2017***

- Developed open source smart environment for hedgehog with monitoring features driven by data collected from a range of sensors such as temperature sensor, camera, speaker, servo motors to autonomously control hedgehog home
- Designed fault tolerant architecture of smart home system using RPC for communication between microcontrollers
- Deployed application on basic Flask server using Amazon Web Services (AWS) cloud technology including: EC2, SQS, DynamoDB and S3 Bucket

Computer Vision Object Classifier ***January 2017 – May 2017***

- Implemented k-means clustering algorithm to classify a sample of 90 images into faces or cars with 80% accuracy
- Optimized using bag of words spatial pyramid matching algorithm to increase accuracy of classifier to 85% accuracy

LEADERSHIP

GT RoboJackets – Training Assistant ***September 2016 - Present***

- Lead technical training sessions designed for new members in RoboJackets
- Lectured about fundamental circuit analysis techniques, instrumentation, and practical skills to new members

FIU-ENLACE – Technology Lead ***June 2011 – July 2013 (Summers)***

- Instructed students on how to build a working prototype of a bionic arms with sensors for a selective nine week engineering summer program for middle school and high school students hosted at Florida International University

SKILLS

Programming	C/C++, Python, MATLAB, Java, C#, VBA, SQL, HTML, CSS, Bash
Software	Quartus II, EagleCAD, Git, LabVIEW, Logger Pro, QNX Momentics, Biopac
Instrumentation	Oscilloscope, Logic Analyzer, Soldering, Signal Analyzer
Languages	English – Native, Spanish – Native, Mandarin Chinese – Basic, Cantonese Chinese – Basic