

# Alberto Li

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## EDUCATION

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**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

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**ExxonMobil Corporation – Software Development Intern** Houston, TX

*May 2018 – Current*

- Developing full stack solutions in React + Redux, .NET Core, and EF Core with a focus on User Centered Design
- Rewriting HR application to increase system stability and reduce user error

**Intel Corporation – Product Development Intern** Folsom, CA

*January 2018 – May 2018*

- Decreased SSD test time by modifying read/write algorithm to dedicate variable bandwidth for platform configuration
- Developed wrapper library to interface with the test platform's BIOS and BMC through the IPMI protocol
- Automated yield report generation and distribution for 3D XPoint Apache Pass persistent memory DIMMs

**General Electric Oil & Gas – Embedded Systems 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 3031: 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

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**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

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**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

## SKILLS

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