# Alberto Li

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**EDUCATION**

**Georgia Institute of Technology,** Atlanta GA ***August 2015 - May 2019***

* B.S. Computer Engineering, GPA: 3.92 / 4.00

**EXPERIENCE**

**Goldman Sachs – Engineering Summer Analyst (Investment Banking Division)** New York, NY ***May 2019 – August 2019***

* Full-stack development role for Marquee Jupiter Shareholder Analytics Platform
* Regional ownership breakdown analysis feature enhancement and investment banking excel report automation
* Cost-basis with multiples analysis for register funds/institutions for company investor portfolio

**ExxonMobil Corporation – Software Development Intern** Houston, TX ***May 2018 – August 2018***

* 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***

* Created wrapper library to interface with the test platform’s BIOS and BMC through the IPMI protocol
* Developed automated yield report generation and e-mail distribution for 3D XPoint 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

**RESEARCH**

**Intelligent Vision & Automation Lab | Research Assistant** Atlanta, GA ***September 2017 – December 2017***

* Worked with a team of four undergraduate researchers, combining AR technologies and ROS to create feedback system such that a user can control a robotic arm with the HoloLens

**Inan Medical Devices Research Lab | Research Assistant** Atlanta, GA  ***September 2016 – May 2017***

* Worked on a smart sensor packaging system for characterizing sensor-to-body interactions in wearable medical devices
* Implemented vibrational system using accelerometers and bone transducer to predict sensor location with heat map

**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 through the cloud using Amazon Web Services

**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**

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

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

**Training Assistant - GT RoboJackets *September 2016 – May 2017***

* Lead technical training sessions designed for new members in RoboJackets, a robotics student competition team
* Lectured about fundamental circuit analysis techniques, instrumentation, and practical skills to new members

**SKILLS**

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| Programming | Python, Java, C#, C/C++, MATLAB, SQL, HTML, CSS, Bash |
| Software | Quartus II, EagleCAD, Git, LabVIEW, Logger Pro, QNX Momentics, Biopac |
| Instrumentation | Oscilloscope, Logic Analyzer, Soldering, Signal Analyzer |
| Frameworks/Technologies | Angular, React, Spark, MongoDB, NodeJS |