

# 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 3031: 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

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