

# Leon Montealegre

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## Objective

Seeking to gain an entry level position or internship as a software engineer or other related field.

## Education

**Rensselaer Polytechnic Institute (RPI)**, Troy, NY

Pursuing BS triple major in Computer Science, Applied Mathematics, and Physics

2017 - Present GPA 3.65

**Pasadena City College (PCC)**, Pasadena, CA

2016 - 2017 GPA 4.0

## Coursework

Data Structures

Computer Organization

Advanced Computer Graphics

Numerical Methods for Diff. Eqs.

Logic Design & Boolean Algebra

Foundations of Computer Science

Principles of Software

Numerical Computing

Physics 2

Linear Algebra

Introduction to Algorithms

Computational Vision

Partial Differential Equations

Quantum Physics 1 & 2

Experimental Physics

Introductory Quantum Mechanics

Advanced Calculus

Geophysical Fluid Dynamics

## Technical Skills

**Languages:** Java, C++, JavaScript, TypeScript, Python, GLSL, Swift, C, C#, PHP, SQL, HTML, (S)CSS, Golang

**Frameworks/Libraries:** React, Electron, Bootstrap, npm, NumPy, Docker, Webpack, Jest, JQuery, Redux, MobX

**Software:** Adobe Photoshop, Adobe Illustrator, Android Studio, Autodesk Maya, Unity, XCode, Logic Pro X

## Projects/Research

**OpenCircuits** // [www.opencircuits.io](http://www.opencircuits.io) // *[Project Leader]*

My open source project that began as an independent study with my professor at PCC and is being used by students for logic design classes. It's a free, HTML5 website that allows you to create and design digital circuits using logic gates, LEDs, switches, etc. I'm currently hosting the project on RPI's Rensselaer Center for Open Source where I'm currently the project manager and leader of a team of 10+ people.

**The Emergent Reality Lab (ERL)** // <https://erl.wp.rpi.edu/> // *[Research Assistant]*

The ERL is a platform for research in virtual reality and mixed reality, combining the real world with immersive virtual environments and the immersion of storytelling and gameplay. I'm currently working with professor Ben Chang as his research assistant in developing the ERL. At the moment, I've been tasked with rewriting and upgrading a lot of the old networking code for better, smoother, and more cohesive results.

## Work Experience

**Google Inc.** // (New York, NY | Summer 2019) // *[Software Engineering Intern]*

I facilitated the delivery of Access Transparency logs to enterprise GSuite customers by improving the UX of Google Admin Console. I improved alerting functionality and made it easier for customers to recognize and understand why a Googler accessed their data.

## Honors

HackRPI IBM Natural Disaster Mitigation and Relief Competition 1st Place

Fiat-Chrysler Design Competition Winner

RPI Leadership Award and RPI Dean's Honor List