

# Jay Reynolds

770-378-7970 | reynoldsjay@gatech.edu | github.com/reynoldsjay

## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA

Fall 2013 - current

BS in Computer Science, Honors Program

**Major GPA 4.0**

Coursework includes:

**Overall GPA - 3.96**

- Artificial Intelligence, Computer Vision, Digital System Design, Digital Signal Processing

**Oxford Study Abroad Program**, Oxford University, England

Summer 2014

- Six weeks traveling and studying European cultures, six weeks in residence at Oxford University

## WORK EXPERIENCE

**Robotic Musicianship Lab, Georgia Institute of Technology**

Atlanta, GA

*Researcher*

Fall 2014 - current

- Developed prosthetic robotic arm to allow an amputee drummer to play at an enhanced level
- Developed back-mounted robotic arm giving drummers a new dimension to their musical performance
- Built systems for sensing and controlling a robot's position using a C++ Kinect application supplemented by information from an ultrasonic sensor attached to an Arduino
  - Allows the prosthetic drumming arm to play different beats when held over different drums
  - Allows the back-mounted robotic arm to adjust itself as the human drummer moves around
- Researching how EEG could be used to influence the actions of robotic musicians

**ARRIS Group, Inc.**

San Diego, CA

*Software Engineering Intern*

May 2015 - July 2015

- Worked in the firmware R&D division for retail products (wireless gateways):
  - Added and tested new features in C
  - Learned about IP stack and embedded development
  - Researched and reported on the feasibility of new features

**Andritz, Inc.**

Roswell, GA

*IT Intern*

May 2013 - August 2013

- Developed company's mobile timesheet application
  - Made mockup iOS app with Objective-C to enable employees to enter time information
  - Designed user interface that is now used by employees in large, multinational company
- Built SharePoint websites specific to different company locations

**EDEC, Inc**

Duluth, GA

*Engineering Intern*

August 2012 - December 2012

- Drew circuit schematics in AutoCAD for different power systems, shadowed electrical engineers

## PROJECTS

**QueueUp** - <http://queueup.io>

January 2014 - current

- A real-time, collaborative playlist application
  - Users host a playlist, friends add songs and vote on what they want to hear next
  - Co-created and built from forming idea to release
  - Native iOS and Android apps built using the Spotify mobile streaming APIs
  - Back end made with Node.js - HTTP API and MongoDB

## SKILLS

**Languages:** Java, MATLAB, Python, C, Objective-C, Assembly, Javascript, VHDL, MaxMSP, PureData, HTML, CSS

**Software:** Git, Linux, Android Studio, Visual Studio, Xcode, IntelliJ, AutoCAD, AbletonLive, GIMP

**Platforms:** iOS, Node.js, Android

**Leadership:** Freshman Servant Leadership Organization, tennis instructor, guitar instructor

**Music:** Guitar, drums, programming, mixing, recording

**Languages:** French - 4 years of high school instruction, practice while studying abroad

**Honors:** Dean's List, Faculty Honors, National Merit Scholarship, Zell Miller Scholarship

**Other:** Georgia Tech Club Tennis