

# Charles Julian Knight

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<http://github.com/rabidaudio>

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## Education

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<i>Fall 2012 - Spring 2015</i>	B.S. Electrical Engineering	Georgia Institute of Technology
<i>Fall 2009 - Spring 2012</i>	B.A. Dual-Degree Program	Berry College

## Technical skills

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Programming	Familiar with:
	<ul style="list-style-type: none"><li>• Javascript (Node, jQuery)</li><li>• Embedded C/C++</li><li>• PHP</li><li>• Python</li><li>• Ruby</li><li>• Perl</li></ul>

### Projects

#### **Wki.pe**

*URL shortener for Wikipedia articles. Started as an early foray into databases. Single-page web app with PHP backend. Learned git, SEO techniques, adaptive HTML5. Brushed up on CSS, jQuery, SQL. Source code on GitHub.*

#### **Autonomous Hot Air Balloon**

*Designed a hot air balloon for the Berry College Physics department for purposes of high-altitude experiments; used physical models to calculate dimensions and other parameters to meet budget and project requirements; sewed over 200 yards of ripstop nylon into a 25 ft. wide, 30 ft. tall envelope; learned welding and other metalworking skills creating a burner.*

#### **Car Music Player**

*Raspberry Pi MP3 player embedded into my dashboard. Wrote player application from scratch in Node.js; wired Arduino I/O board with RS232 interface to Pi; learned Node streams, serial communication.*

More projects and information on my blog: <http://blog.rabidaudio.com>

## Organizations

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*Spring 2014 - Present*

#### **Startup Exchange**

*Organizer Student organization to foster entrepreneurship and hacker culture on campus. Co-led the Maker team. Developed and maintained website, taught classes on web development with Ruby on Rails to six students, organized three and attended over a dozen hackathons.*

## Employment

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*May 2014–Present*

### **TechJect, Atlanta, Georgia**

Engineering and Development Intern    *Developed micro-UAV control app in Android; assisted in design of embedded ARM SoC development board; maintained firmware and kernel drivers for custom Android device; optimized autonomous flight code for UAVs; managed collection of Wordpress sites including e-commerce and customer support sites; set up good coding practices on sites.*

*Jan 2014–June 2014*

### **GetNotes, Atlanta, Georgia**

Developer    *Joined an Atlanta Ventures-funded startup during their progress through the Flashpoint accelerator at Georgia Tech. Created and implemented features application independently in a rapid development cycle; patched bugs; advised on technologies and company direction; learned rigorous customer discovery processes.*

*Sep 2012–Aug 2013*

### **Norfolk Southern Corporation, Atlanta, Georgia**

Co-op, Distributed Systems/AIX.    *Wrote automation scripts (perl/shell); worked with diagnostic reporting and resource inventory database; helped manage 10,000 sq. ft. datacenter; developed for and trained coworkers in SharePoint; developed application in Visio for visualizing datacenter layout; tweaked, deployed, and administered DokuWiki server.*

*Aug 2009–April 2012*

### **Berry College Office of Information Technology, Mount Berry, Georgia**

Student Supervisor, Technical Support Desk.    *Provided technical support for faculty, staff, and students via phone, email, and in person; created and managed service requests and directed departmental calls.*