

Patrick Woodburn, Software Engineer

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SUMMARY A software engineer passionate about emerging technology that allows users to interact with the world around them.

EXPERIENCE **Comcast, Software Engineer** Mar 2015 — May 2017
xfinity.com

- o Designing and developing home security and home automation systems.
- o Operating within a team of developers to develop and test a new home automation system
- o Working with on internet connected devices to automate and secure users' homes.
- o Developing android apps that could run against a users unique home automation system.
- o Using testing tools such as junit and espresso to create test code to run against android apps for continuous integration.

Franklin Institute, Teacher Apr 2006 — Present
fi.edu

- o Teaching robotics to high school students
- o Planning lessons on the topics of electrical and software development.
- o Teaching students how to program and build circuitry required for multiple applications of robotics.
- o Working with students to build robots for various competitions and museum displays.
- o Documenting use and maintenance of students projects to be handed off to groups tasked with operation through museum.

Independence Blue Cross, Software Engineer Aug 2014 — Feb 2015
ibx.com

- o Writing secure access software for customers to access their personal private Insurance information.
- o Implementing given designs so that users may have the most comfortable experience possible when accessing their insurance information.
- o Creating cross platform mobile apps that could be rebranded for multiple insurance companies.
- o Porting functionality of apps between incompatible code repositories.

BioHitech America, Intern Jan 2014 — Jul 2014
biohitech.com

- o Developed Linux-based software to run on industrial organic digester
- o Developed software to run on headless industrial machinery and perform analytics on their use.
- o Set up and maintained Linux devices to be used in embedded industrial applications.
- o Creating static environment configuration for large numbers of linux machines and virtual machines
- o Developing Kiosk software to be able to track metrics from items scanned with nfc chips.
- o Developing webpages to pull from various RESTful APIs

VOLUNTEERING **Code for Philly** May 2011 — Jan 2016
codeforphilly.org

- o Developed Open source software for the betterment of conditions in Philadelphia
- o Acted as a subject matter expert on developing APIs and integrating them into web and mobile apps.
- o Creating Websites for community service projects.
- o Building apps to help transform improve communities within the city.

EDUCATION **Harrisburg University Of Science And Technology** Sep 2010 — May 2014
Bachelor - Computer Information Sciences, GPA: 3.4 Major

SKILLS	Software Engineering: Java, C++, Python, Android, HTML, Object Oriented Programming, JavaScript, Nodejs, Git, Linux, rxJava, php, bash, jquary, React Native, jankins, Docker, ansible Electrical Design: Circuit Design, Prototyping, soldering
INTERESTS	Robotics [<i>Internet Of Things, Electrical, Control Systems</i>], Artificial Intelligence [<i>AI, Neural Networks, Big Data</i>], Home Automation [<i>Internet Of Things, Electrical</i>], Embedded Systems [<i>Linux, Micro Controller, PIC, AVR, Arm</i>]