# Nathan Robinson

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**Social media:**
Twitter, GitHub, Linkedin:
**nrobinson2000**

**Online Portfolio:**
https://nrobinson2000.me

**Skills:**
Particle Firmware Development, Full-Stack Web Administration

**Favorite Languages:**
Particle C++, Bash, JavaScript, Python

**Favorite Systems:**
macOS, Raspberry Pi, Particle Photon

## Experience

February 2017 - Present — **Web Consultant**

Created and administered the website for DPC New England, a coalition of doctors providing direct primary care. Developed Wordpress, Discourse, and system administration skills on an Ubuntu Linux server.

June 2015 - Present — **Particle Community Volunteer**

Assisting the developers and users of Particle, a company providing extensive Internet of Things services and micro-controller development kits used by developers and companies worldwide. I directly address topics within the active community, providing assistance with code and giving feedback on Particle's tools and services.

## Education

2016 - Present — **Cape Elizabeth High School**

Coding Club Leader, Junior Varsity basketball

In Coding Club I focus on helping other students create projects with the Particle IoT platform and teaching them the fundamentals of developing smart devices and web based applications.

Summer 2016 — **Oxbridge Experience in Boston**

Majored in Computer Science and minored in Neuropsychology during the summer of 2016 while residing at the Harvard Law School at Harvard University.

Created a semi-autonomous rover using a Particle Photon, Arduino Uno, and a Raspberry Pi that used sensors to navigate mazes and avoid objects. Building the robot improved my C++ and Python programming skills.

Received an A+ in Computer Science.

2015 - 2016 — **ACS Hillingdon International School, London**

Tech Club Leader, Genius Bar facilitator, played Junior Varsity Basketball, Volleyball and Tennis.

At the Genius Bar, I assisted other students, teachers, parents and staff with common issues, including using our school's network, Google Drive and printing.

For my Grade 10 personal project I created an IoT demonstration that uses a Photon to control servos and lights and monitor sensors with an accompanying web app.

Summer 2015 — **Cambridge Prep Experience**

- Majored in Science and the Future and minored in Speech and Debate during the summer of 2015 while residing at Peterhouse College at Cambridge University.

- Received an A+ in Science and the Future

Summer 2014 **Oxford Prep Experience**

- Majored in Computer Science and minored in Creative Writing in the summer of 2014 while residing at Oriel College at Oxford University.

- Received an A+ in Computer Science

## Skills and Interests

**Particle Tools:**
I have used both the Photon and Electron, and continue to use Particle tools to develop projects in Tech Club and my own personal projects. I primarily use Particle CLI in combination with Atom to code C++ for my devices, and I like to create web applications with JavaScript to access the Particle API in order interface them.

**Bash:**
I am skilled with the Unix command line and enjoy creating scripts to make development quicker and easier. I maintain a script on GitHub that installs the Particle Offline Toolchain on Mac OSX and Ubuntu and allows users to develop offline efficiently or push code to devices using DFU Utilities.

**C++, JavaScript, Bash, Python, GitHub, IoT, Linux**