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# Nicolas Hite

## SKILLS

### Languages

C#  
JavaScript (+Node JS)  
Python  
Ruby  
HTML/CSS/SCSS

### Scripting / CLI

Powershell  
GNU Bash

### Frameworks

Microsoft .NET / ASP.NET  
Backbone JS / Marionette JS  
Rails  
vSphere API / PowerCLI

### DB

SQL  
MongoDB

### Concepts

RESTful API Design  
Asynchronous programming  
Machine Learning  
Test-Driven Development  
Service-Oriented Architecture  
Data Center Infrastructure  
DC Virtualization / VDI  
Computer Hardware  
Active Directory / Group Policy

## HONORS

### JSC Director's Innovation Team Award

Presented to Avionic System's FDOTF team for outstanding work and innovation

### Senior Design Project Highest Honors

Awarded for MIT thesis

Designs from Media Lab featured on CNN and multiple TED talks

## EDUCATION

**Harvard University | Cambridge, MA** *September 2010 - May 2014*

### B.S. Engineering Sciences

Track in Biomechanical Engineering - GPA: 3.4 / 4.0  
Thesis: *Augmentation of Muscular Endurance in Lower-Limb Exercises via Passive Elastic Exoskeleton*

## WORK EXPERIENCE

**McMaster-Carr Supply Company | Chicago, IL**

**Infrastructure Engineer (VDI)** *March 2016 - Present*

Designed VDI desktop, app delivery, networking, and storage for ~1,000 workers  
Automated deployment and maintenance of HCI cluster ops with Powershell  
Wrote internal scheduling software for desk sharing

**Recruiting Manager** *August 2015 - March 2016*

Led recruiting strategies for McMaster-Carr's Systems department  
Managed on-campus recruiting efforts for multiple schools  
Scheduled interview groups and led deliberations  
Conducted 30+ technical interviews

**Full-Stack Web Developer** *August 2014 - March 2016*

Wrote new C# APIs to deal with complex order and product info on [www.mcmaster.com](http://www.mcmaster.com)'s Order History page  
Worked on order-relevance scope / search-term cache creation and filtering for searching orders by product  
Designed front-end of delayed payment feature in Backbone.js  
Created internal end-to-end web testing framework in Node.js

**NASA Johnson Space Center | Houston, TX**

**Avionic Systems Engineering Intern** *May 2013 - August 2013*

Designed visualization system for "Holodeck" telepresence dome using ray-tracing simulations and CAD  
Wrote C++ with OpenGL to create warp matrices for projector image correction  
Completed structural FEA of support systems and decided future work

**MIT Media Lab Biomechatronics Group | Cambridge, MA**

**Prosthetics Project Assistant** *June 2012 - May 2013*

Performed structural FEA on several leg socket designs and improved FOS x5  
Created new socket design method in SolidWorks to speed up design x10

**Thesis** *August 2013 - April 2014*

Designed, built, and tested lightweight human-powered exoskeletons  
Used MATLAB CV library to track motion and calculate 2D stiffness of springs  
Saw >10% reduction in metabolic cost of squatting exercises