

# Oliver H.B. Scott

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## Experience

May 2015 - Feb. 2016	<b>N12, Cambridge MA</b> <i>Systems Engineer, Internship</i> <ul style="list-style-type: none"><li>• One of two engineers responsible for the automation, data acquisition and networking of a distributed system of sensors and devices in a small multidisciplinary Agile run team.</li><li>• Drastically improved system reliability by spearheading the design and development of a closed-loop control system coded in C. The system replaced the legacy open-loop Labview control program with the addition of a Linux machine running multiple VMs to handle system delegation in a master/slave architecture.</li><li>• Worked independently to write C APIs for five third-party devices for integration into the control program. Communication between subsystems was performed using Modbus, Ethernet and RS-232.</li><li>• Lead the automation of data collection by implementing N12's RDBMS using Mariadb.</li></ul>
July 2014 - Dec. 2014	<b>Meditech, Framingham MA</b> <i>Data Repository Programmer, Internship</i> <ul style="list-style-type: none"><li>• Increased usability of data for customers by assisting in the migration of data from proprietary data formats to equivalent MySQL tables as part of an Agile run team.</li><li>• Resolved 38 bug requests using SQL and two proprietary languages during a period in which the team's bug count fell from 149 to 86. By year's end, the bug backlog had dropped 41% from the previous year.</li></ul>

## Projects

<b>Backend, Team: AmericaSCORES</b> <ul style="list-style-type: none"><li>• Developed the backend components for a web and mobile product created for a local NGO.</li><li>• Key contributor in designing and implementing a RESTful API using Node, Express and MySQL.</li><li>• Headed the integration of Auth0 for authentication and authorization purposes.</li></ul> <b>Web Application, Team: Orator</b> <ul style="list-style-type: none"><li>• MakeBU Hackathon, 2<sup>nd</sup> Place.</li><li>• Leveraged jQuery, AngularJS and various open source libraries to develop a web application aimed at offering constructive feedback for public speaking.</li></ul>	<b>Senior Capstone, Team: Autonomous Drone</b> <ul style="list-style-type: none"><li>• Successfully developed a drone capable of fully autonomous flight using all open-source hobbyist technologies.</li><li>• Designed and implemented a Python controls program to evaluate onboard telemetry and camera information to generate the motor commands necessary to follow a moving target at a fixed distance in 3-D space.</li></ul> <b>Web Application, Personal: Weather Applet</b> <ul style="list-style-type: none"><li>• Implemented Google's Geolocation API and the ForecastIO API to develop a full stack forecasting applet.</li><li>• Leveraged PHP, MySQL and JQuery to access and visualize current, past and future trends.</li></ul>
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## Education

Jan. 2016	<b>Northeastern University, Boston MA</b> <i>Bachelor of Science in Computer Engineering with a minor in Computer Science</i> GPA: 3.76, <i>Magna Cum Laude</i> Eta Kappa Nu IEEE Honors Society, University Honors Program, Dean's Merit Scholarship Recipient Courses: Machine Learning • Algorithms • Object Oriented Design • Optimization Methods • Programming Languages • Computer Architecture • Computer Networks • Computer Security • Vision and Robotics • Software Development • Discrete Math • Differential Equations • Fundamentals of Computer Science • Engineering Problem Solving with C++. Clubs: NU Hacks, Wireless Club, Toastmasters International, NUTV Marketing Director.
June 2012	<b>Palisades Charter High School, Los Angeles CA</b> GPA: 4.02

## Skills

<b>Technical</b>	<u>Languages</u> : High Proficiency in: Java, C/C++. <i>Working Proficiency in</i> : Javascript (Node/Express), CSS, Python, SQL. <u>Tools</u> : Git, Confluence, Jira, VMware, MySQL, Labview, OS X, Linux.
<b>Presenting</b>	<u>Toastmasters</u> : Active participant in both the Northeastern & Santa Monica chapters. <u>NUTV</u> : E-Board Marketing Director for the university's video production club. Executive Producer, director and writer for the Entertainment department. Host for the bi-annual award show.
<b>Misc.</b>	UK and US citizen, limited working fluency in Spanish, cyclist, comedy enthusiast.