

MICHAEL P. HAMMER

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EDUCATION	Bucknell University · Major: Computer Science and Engineering, Minor: Mathematics · GPA: 3.85 Engineering GPA: 3.90 Dean's List (every semester)	<i>Graduation Date May 2017</i>
WORK EXPERIENCE	NASA Jet Propulsion Laboratory Internship · Worked on developing a communication protocol with the European Space Agency using the CCSDS international networking standards for space agencies · Modified European networking software in Java to demonstrate transporting JPL space telemetry (data)	<i>May 2016 - Aug 2016</i>
	NASA Jet Propulsion Laboratory Internship · Developed web applications to improve Mars Relay Telemetry planners' ability to visualize multiple time references (for Mars and Earth) during their Mars-Orbiter-Earth relay planning process · Used HTML, CSS, Javascript, and JQuery to design a dynamic calendar that graphically depicts Earth-time and Mars-time (Sols) for each Mars mission	<i>May 2015 - Aug 2015</i>
	NASA Jet Propulsion Laboratory Internship · Created software to help visualize and assess the performance of the science data processing system used by the Orbiting Carbon Observatory mission · Fetched space telemetry (data) with SQL commands, parsed data into JSON format with Python, and visualized information via a web interface	<i>May 2014 - Aug 2014</i>
	Bucknell University Teaching and Learning Center · Conceived, implemented and led Bucknell's first computer science study group program · Leading Study Groups in Computer Science (3 semesters) and Physics (1 semester)	<i>Aug 2014 - Present</i>
	American Cancer Society: Relay for Life · Committee Member and Volunteer · Fundraised, planned, and lead activities for main event, and organized youth activities	<i>Sep 2009 - Sep 2013</i>
ACTIVITIES	Tau Beta Pi Engineering Honors Society · Exhibited integrity and excellence in engineering, service to the community, and professionalism	<i>Oct 2016 - Present</i>
	Association for Computing Machinery Club · Attended various events related to computer science	<i>Feb 2013 - Present</i>
	Bucknell Affinity House Member · Computing and Technology House - Lived and participated in a technology-based environment · Entrepreneurship and Innovation House - Attended inspirational events	<i>Aug 2016 - Present</i>
	Boy Scout Troop 485, Life Scout (Rank Preceding Eagle) · Assistant Patrol Leader, Patrol Quartermaster, and Troop Quartermaster positions	<i>Sep 2009 - Jun 2013</i>
	Cross Country and Track · Varsity, Most Improved Award, Scholar Athlete Award, Scholarship Award (model team player)	<i>Sep 2009 - Jan 2013</i>
PROJECTS	Bucknell Map · Used Google Maps API to build an interactive map of Bucknell University	<i>May 2014 - Present</i>
	Raspberry Pi Car · Used Raspberry Pi 2 computer to construct a car controlled via an iPhone over Wi-Fi	<i>May 2015 - Aug 2015</i>
	Solar System Simulation · Created interactive, dynamic model of the solar system using fundamental force calculations	<i>Jun 2014 - Jul 2014</i>
TECHNICAL SKILLS	Focus Areas Networking, Web Development, Data Mining, General Programming Primary Skills Python, Java, C, HTML, CSS, JavaScript, jQuery, Unix Familiarity C++, SQL, R, MATLAB, L ^A T _E X, Databases, Artificial Intelligence (In Progress)	