Mateo Guaman Castro

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Education	Tufts University, Medford, MA Bachelor of Science in Electrical Engineering, expected May 2020 GPA: 3.73, Dean's List 2 semesters Unidad Educativa Julio Verne, Quito, Ecuador Class of 2016 Valedictorian
Relevant Courses	General Physics 1, Calculus 1 and 2, Introduction to Computer Science (C++), Applications in Engineering: Simple Robotics, Introduction to Computing in Engineering (MATLAB)
Skills	Programming Languages: C++, Python, MATLAB, HTML, LabVIEW Products and packages: Raspberry Pi, Arduino, ROS, LEGO MINDSTORMS Software: Adobe Illustrator, Lightroom, Premiere Pro, InDesign, Microsoft Office products Language: Spanish (native)
Experience	 CRISP Lab, Tufts University, Research Assistant, 2017 Designed and built a land robot from scratch to be used on research in obstacle avoidance with computer vision, control systems of the robot and real time communication with a drone. Controlled from a Raspberry Pi that communicates through ROS to an Arduino that controls the sensors and movement of the robot Center for Engineering Education and Outreach, Tufts University, Summer Internship, 2017 Built an Arduino-based IoT sign for Prof. Ethan Danahy's Lab as part of a local network of IoT devices that can be used to develop and showcase the IoT capabilities of the LEGO MINDSTORMS EV3. Developed examples of a Raspberry Pi controlling the color of the above sign and Philips Hue lightbulbs over the internet. Mentored a workshop for 38 Japanese High School students on client based product development.
Project	 Programming project for high school entrepreneurship fair, 2015 Developed a voting program in Python for my school's entrepreneurship fair to make the process of voting for the best project more reliable and efficient
Community Service	 Fundación Brethren y Unida, Pichincha, 2013-2015 Reforested, helped build canals, fences, and orchards in the small town of Picalqui to foster community development and organic production of goods. Reforested and made compost beds for burned-down section of the biggest urban park in Quito, Parque Metropolitano.