

# Ruthvik Peddawandla

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<b>Education</b>	Bachelor of Science – Computer Engineering and Computer Science GPA: Major – 3.10   Fall 2014 – 3.70 University of Southern California	Class of 2016
<b>Skills</b>	C/C++   Python   Raspberry Pi   HTML/CSS   Hadoop/MapReduce   Oracle   Verilog	
<b>Coursework</b>	Data Structures & Object Oriented Design, Computer Organization & Architecture, Digital & Linear Circuits, Computer Networks, Robotics, Programming in C++ & Python, Statistics.	
<b>Experience</b>	Intern - EMMVEE Photovoltaic Power Ltd. <ul style="list-style-type: none"><li>Performed site evaluation analysis, drafted wiring diagrams, calculated and selected various components for systems based on consumer-specific constraints and requirements.</li></ul>	July-August 2014
	Intern - Hydromax Ltd. <ul style="list-style-type: none"><li>Worked with maintenance crew to operate electrical powerhouse at a hydroelectric power plant. Shadowed project manager and contributed to problem management committee.</li></ul>	June 2012   June-July 2013
<b>Projects</b>	Raspberry Pi Personal Voice Assistant <ul style="list-style-type: none"><li>Implemented an always-on, voice-controlled, completely programmable personal assistant which answers questions and performs actions by delegating requests to a set of web services</li><li>Implemented a standalone streaming music player and gesture-controlled interface using a 3 Axis Accelerometer</li></ul>	July 2014
	App Development – Human Logistics <ul style="list-style-type: none"><li>Conceived a startup concept as a part of a two-man team with a vision of transforming the international courier service by creating a network of crowd sourced couriers.</li><li>Designed and programmed the front end of an accompanying webapp using HTML, CSS and jQuery Mobile. The idea &amp; concept won us an award, listed below.</li></ul>	January 2014
<b>USC</b>	<b>Programming [C++]</b> [Fall 2014]: Coded the backbone of a social network in C++. Functionality included the ability to add/remove elements, read/write from/to external files, add/remove/suggest friends and find shortest paths among others. <b>Digital Logic</b> [Spring 2014]: Programmed a variation of Pong on an FPGA board in Verilog using Xilinx ISE. Gravity is simulated and speed increases with each point. Display is output to VGA. <b>Linear Circuits</b> [Fall 2013]: Designed and built basic electric guitar along with amplifier, tuner and distortion circuits using a cigar box, resistors, capacitors & diodes in a 2-man team.	
<b>Awards</b>	Deans List – University of Southern California	Fall 2014
	Finalist – AppInc 2013 Innovation Contest [Human Logistics] <ul style="list-style-type: none"><li>Placed 3<sup>rd</sup> and won a cash prize in an app innovation contested by 500+ teams backed by Intel and the Govt. of Karnataka, India.</li></ul>	January 2014
<b>Involvement</b>	Project Africa <ul style="list-style-type: none"><li>Communicated with Ugandan organization and coordinated team's service trip to identify the biggest problems affecting a remote village in central Uganda and actively engage the locals in discussions and activities to implement solutions to overcome them.</li></ul>	January 2012 – May 2014