

# ANTHONY BAHADIR LOPEZ

1404 5th Ave San Diego CA • 619-847-1452 • abl012@ucsd.edu

<b>Objective</b>	Applying for admission into University of California – San Diego's Doctor of Philosophy of Computer Science program.	
<b>Education</b>	<b>University of California - San Diego</b> , La Jolla, CA B.S. Computer Engineering, June 2015 Major Upper Division GPA: 3.477/4.0 Overall GPA: 3.37/4.0	
<b>Relevant Courses</b>	<ul style="list-style-type: none"><li>• CSE 101: Design and Analysis of Algorithms</li><li>• CSE 140/L: Components and Design Techniques for Digital Systems</li><li>• CSE 141/L: Introduction to Computer Architecture</li><li>• CSE 243A: Introduction to Synthesis Methodologies in VLSI CAD</li></ul>	
<b>Research Experience</b>	<b>Undergraduate Researcher at UC Los Angeles</b> <b>Adviser: Dr. Miodrag Potkonjak</b> <ul style="list-style-type: none"><li>• Conducted research in the lab of Dr. Miodrag Potkonjak for 10 weeks.</li><li>• 40-50 Hrs/ Week.</li><li>• Applied existing logic mapping algorithm to create a program that simulated the development of a quick and minimal physical unclonable function (PUF) implementation for ISCAS-85 benchmark integrated circuit.</li><li>• Prepared poster for conferences.</li></ul>	06/2014-09/2014
	<b>Undergraduate Researcher at UC San Diego</b> <b>Adviser: Dr. Alex Orailoglu</b> <ul style="list-style-type: none"><li>• Conducted research in Synergy Lab for ten weeks.</li><li>• 15-20 Hrs. / Week.</li><li>• Explored the security protocol of ZigBee and determined possible attacks on a released ZigBee network implementation using a TI packet sniffer and KillerBee framework.</li><li>• Prepared Powerpoint and poster for conferences.</li></ul>	06/2013-09/2013
	<b>Tutor for CSE 3: Fluency in Information Technology</b> <ul style="list-style-type: none"><li>• Materials taught in class are: Javascript, HTML, CSS, Microsoft Excel, and Alice.</li></ul>	03/2014 – 06/2014
	<b>Tutor for CSE 11: Intro to Java Programming (Accelerated Pace)</b> <ul style="list-style-type: none"><li>• Materials taught in class are: Java, Polymorphism, Encapsulation, Inheritance, Abstraction, Recursion, and Algorithms.</li></ul>	07/2013-08/2013 and
<b>Teaching Experience</b>	<b>Tutor for CSE 100: Advanced Data Structures (In C++)</b> <ul style="list-style-type: none"><li>• Materials taught in class are: C++, Heaps, Trees (Binary, Treaps, Huffman, Ternary, Red-Black, 2-3), Hashing, Compression and Decompression.</li></ul>	03/2014-06/2014 01/2014-03/2014
	<b>Tutor for CSE 140: Components and Design Techniques for Digital Systems</b> <ul style="list-style-type: none"><li>• Materials taught in class are: Boolean Logic, Digital Circuit Design, Timing Diagram Analysis, Flip Flops, Hamming Distance, Error Detection and Correction, Finite State Machines, and Combinational and Sequential Logic.</li></ul>	09/2013-12/2013
	<b>Tutor for CSE 140: Components and Design Techniques for Digital Systems</b> <ul style="list-style-type: none"><li>• Materials taught in class are: (see above).</li></ul>	08/2013-12/2013
<b>Organizations</b>	<b>NACME (National Action Council for Minorities in Engineering) Scholar</b> <ul style="list-style-type: none"><li>• NACME scholars are financially and academically assisted as long as they are involved with research/internship and achieving a GPA of greater than 3.0.</li></ul>	11/2013-Present
	<b>UC LEADS (University of California - Leadership Excellence through Advanced Degrees) Scholar</b> <ul style="list-style-type: none"><li>• Research program directed towards students in financial need that display academic excellence and are interested in achieving a PhD.</li></ul>	06/2013-Present

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	<b>NSF-CAMP (National Science Foundation – California Alliance for Minority Participation) Scholar</b> <ul style="list-style-type: none"> <li>Program at UC San Diego provides support and advancement opportunities to ethnically underrepresented students who are seeking bachelor's degrees in a STEM field.</li> </ul>	06/2013-Present
	<b>SPUR (Summer Program for Undergraduate Research)</b> <ul style="list-style-type: none"> <li>UC Los Angeles ten week summer research program that requires students to attend a lab for 40 hours per week and to conduct a poster presentation to other students and faculty in the final week.</li> </ul>	06/2014-09/2014
	<b>STARS (Summer Training Academy for Research in the Sciences) Program</b> <ul style="list-style-type: none"> <li>Summer research program that requires students to attend a lab and conduct and present their research to other students and faculty.</li> </ul>	06/2013-09/2013
<b>Presentations</b>	<ul style="list-style-type: none"> <li>Poster Presentation at SACNAS (Society for Advancement of Chicanos and Native Americans in Science) Conference at Los Angeles, California</li> <li>Poster Presentation at SPUR Research Conference UC Los Angeles</li> <li>Oral Presentation at UCSD Undergraduate Research Conference</li> <li>Poster Presentation at UC LEADS Conference at UC Riverside</li> <li>Poster Presentation at SACNAS Conference at San Antonio, Texas</li> <li>Oral Presentation at STARS Research Conference at UC San Diego</li> </ul>	10/18/2014 10/27/2014 04/26/2014 04/22/2014 10/04/2013 08/15/2013
<b>Internships</b>	<b>San Diego Supercomputer Center CIPRES Science Gateway Intern</b> <ul style="list-style-type: none"> <li>Testing REST API services using different scripting languages such as Javascript and Perl.</li> </ul>	09/2014-Present
<b>Awards</b>	<ul style="list-style-type: none"> <li>Walsh Scholarship</li> <li>NACME Scholarship</li> <li>STARS Summer Scholarship</li> <li>SACNAS Travel Scholarship</li> <li>Create Scholarship</li> <li>Provost's Honors</li> <li>International Baccalaureate Diploma at San Diego High School - Int'l Studies</li> </ul>	2014-Present 2013-Present 2013 2013 2012-2013 4 Quarters 2011
<b>Volunteering/ Extra-Curricular</b>	<b>UCSD Badminton Intercollegiate Club</b> <ul style="list-style-type: none"> <li>Attend practices and competition events. 10 Hrs. / Week.</li> </ul> <b>Tzu Ching Volunteering Club</b> <ul style="list-style-type: none"> <li>Volunteer for STEM tutoring services in a minority-populated area.</li> </ul> <b>Video Game Development Club</b> <ul style="list-style-type: none"> <li>Developed a small video game using Java and demonstrated it at end of season.</li> </ul> <b>Sage Volunteer Tutor</b> <ul style="list-style-type: none"> <li>Guiding students of non-computer science backgrounds to understand the basics of programming with a Java-like API called Alice.</li> </ul>	2011-Present 2011-Present 2012-2013 2012
<b>Leadership</b>	<b>Elected Captain of UCSD Badminton Intercollegiate Club</b> <ul style="list-style-type: none"> <li>Planned, prepared, executed budget, practice and event plans. 15hrs/Week.</li> </ul>	2012-2013
<b>Languages</b>	<b>English:</b> Native language <b>Spanish:</b> Intermediate Listener and Speaker, Advanced Reading and Writing	