

# ANTHONY BAHADIR LOPEZ

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<b>Education</b>	<b>University of California - San Diego, La Jolla, CA</b> Expecting Bachelors in Science in Computer Engineering, June 2015 Major Upper Division GPA: 3.4 Overall GPA: 3.3	
<b>Research Experience</b>	<p><b>Undergraduate Researcher at UC Los Angeles</b>  <b>Adviser: Dr. Miodrag Potkonjak</b></p> <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> <p><b>Undergraduate Researcher at UC San Diego</b>  <b>Adviser: Dr. Alex Orailoglu</b></p> <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>	<p>06/2014-09/2014</p> <p>06/2013-09/2013</p>
<b>Teaching Experience</b>	<p><b>Tutor for CSE 3: Fluency in Information Technology – Professor Susan Marx</b></p> <ul style="list-style-type: none"> <li>Materials taught in class are: Javascript, HTML, CSS, Microsoft Excel, and Alice.</li> </ul> <p><b>Tutor for CSE 11: Intro to Java Programming (Accelerated Pace) – Professor Greg Miranda</b></p> <ul style="list-style-type: none"> <li>Materials taught in class are: Java, Polymorphism, Encapsulation, Inheritance, Abstraction, Recursion, and Algorithms.</li> </ul> <p><b>Tutor for CSE 100: Advanced Data Structures (In C++) - Dr. Paul Kube</b></p> <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> <p><b>Tutor for CSE 140: Components and Design Techniques for Digital Systems – Dr. Alex Orailoglu</b></p> <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> <p><b>Tutor for CSE 140: Components and Design Techniques for Digital Systems – Dr. Rajesh Gupta</b></p> <ul style="list-style-type: none"> <li>Materials taught in class are: (see above).</li> </ul>	<p>03/2014 – 06/2014</p> <p>07/2013-08/2013 and 03/2014-06/2014 01/2014-03/2014</p> <p>09/2013-12/2013</p> <p>08/2013-12/2013</p>
<b>Internships</b>	<p><b>San Diego Supercomputer Center CIPRES Science Gateway Intern</b></p> <ul style="list-style-type: none"> <li>Testing REST API services using different scripting languages such as Javascript and Perl.</li> </ul> <p><b>Slithr Vehicles at Moxie Center</b></p> <ul style="list-style-type: none"> <li>Designing, creating, and testing controller centered on an Arduino with Bluetooth module that controls skateboard motor speed.</li> </ul>	09/2014-Present
<b>Relevant Courses</b>	<ul style="list-style-type: none"> <li>CSE 101: Design and Analysis of Algorithms</li> <li>CSE 105: Automata and Computability Theory</li> <li>CSE 123: Computer Networks</li> <li>CSE 127: Computer Security</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> <li>ECE 111: Advanced Digital Design Project</li> </ul>	
<b>Programs</b>	<p><b>NACME (National Action Council for Minorities in Engineering) Scholar</b></p> <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

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	<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
	<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 Science, Technology, Engineering and Mathematics (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 do research at a lab for at least 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>Research Conferences and Presentations</b>	<b>Poster Presentation at SACNAS (Society for Advancement of Chicanos and Native Americans in Science) Conference at Los Angeles, California</b>	10/18/2014
	<b>Poster Presentation at UC Los Angeles SPUR Research Conference</b>	10/27/2014
	<b>Oral Presentation at UC San Diego Undergraduate Research Conference</b>	04/26/2014
	<b>Poster Presentation at UC LEADS Conference at UC Riverside</b>	04/22/2014
	<b>Poster Presentation at SACNAS Conference at San Antonio, Texas</b>	10/04/2013
	<b>Oral Presentation at STARS Research Conference at UC San Diego</b>	08/15/2013
<b>Awards</b>	<b>Walsh Chacon Scholarship</b> <ul style="list-style-type: none"> <li>3.0+ cum GPA demonstrating college-level academic, campus or community service/ leadership and who attended Toussaint Academy of the Arts and Sciences</li> </ul>	2014-Present
	<b>NACME Scholarship</b> <ul style="list-style-type: none"> <li>Full-time, Latino, 2.8+ cum GPA, in engineering program</li> </ul>	2013-Present
	<b>SACNAS Travel Scholarship</b> <ul style="list-style-type: none"> <li>Requires recommendation form from a professor and pays for housing and travel fees</li> </ul>	2013
	<b>Provost's Honors</b> <ul style="list-style-type: none"> <li>At least twelve graded units in a quarter and a min average GPA of 3.5</li> </ul>	4 Quarters
	<b>International Baccalaureate (IB) Diploma at San Diego High School - Int'l Studies</b> <ul style="list-style-type: none"> <li>Diploma awarded to students who complete the rigorous and knowledge-rewarding IB program.</li> </ul>	2011
	<b>Salutatorian at San Diego High School – Int'l Studies</b>	2011
	<b>UCSD Badminton Intercollegiate Club</b> <ul style="list-style-type: none"> <li>Attending practices and competition events. 10 Hrs. / Week.</li> </ul>	2011-Present
	<b>Tzu Ching Volunteering Club</b> <ul style="list-style-type: none"> <li>Volunteering for STEM tutoring services in a minority-populated area.</li> </ul>	2011-Present
<b>Volunteering/ Extra-Curricular</b>	<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>	2012-2013
	<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>	2012

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## *Leadership*

### **Elected Captain of UCSD Badminton Intercollegiate Club**

2012-2013

- Planned, prepared, executed budget, practice and event plans. 15hrs/Week.

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## *Languages*

**English:** Native language

**Spanish:** Intermediate Listener and Speaker, Advanced Reading and Writing

**Turkish:** Basic Listener and Speaker