

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

Education	University of California - San Diego, La Jolla, CA Expecting Bachelors in Science in Computer Engineering , June 2015 Major Upper Division GPA: 3.4 Overall GPA: 3.3
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- Conducted research in the lab of Dr. Miodrag Potkonjak for 10 weeks.
- 40-50 Hrs. / Week.
- 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.
- Prepared poster for conferences.

- Conducted research in Synergy Lab for ten weeks.
- 15-20 Hrs. / Week.
- Explored the security protocol of ZigBee and determined possible attacks on a released ZigBee network implementation using a TI packet sniffer and KillerBee framework.
- Prepared Powerpoint and poster for conferences.

- Materials taught in class are: Javascript, HTML, CSS, Microsoft Excel, and Alice.

- Materials taught in class are: Java, Polymorphism, Encapsulation, Inheritance, Abstraction, Recursion, and Algorithms.

- Materials taught in class are: C++, Heaps, Trees (Binary, Treaps, Huffman, Ternary, Red-Black, 2-3), Hashing, Compression and Decompression.

- 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.

- Materials taught in class are: (see above).

- Testing CIPRES REST API services using different scripting languages such as Perl, Java, HTML, and Javascript.

- Designing, creating, and testing a controller using an Arduino with a Bluetooth module. The purpose of the wireless controller will be to manually control LED lights, flashlights, and the motor of a skateboard which also has a microcontroller with a Bluetooth module

- CSE 101: Design and Analysis of Algorithms
- CSE 105: Automata and Computability Theory
- CSE 123: Computer Networks
- CSE 127: Computer Security
- CSE 140/L: Components and Design Techniques for Digital Systems
- CSE 141/L: Introduction to Computer Architecture
- CSE 243A: Introduction to Synthesis Methodologies in VLSI CAD
- ECE 65: Components and Circuits Laboratory
- ECE 111: Advanced Digital Design Project

ANTHONY BAHADIR LOPEZ

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Programs	NACME (National Action Council for Minorities in Engineering) Scholar <ul style="list-style-type: none"> 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. 	11/2013-Present
	UC LEADS (University of California - Leadership Excellence through Advanced Degrees) Scholar <ul style="list-style-type: none"> Research program directed towards students in financial need that display academic excellence and are interested in achieving a PhD. 	06/2013-Present
	NSF-CAMP (National Science Foundation – California Alliance for Minority Participation) Scholar <ul style="list-style-type: none"> 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. 	06/2013-Present
	SPUR (Summer Program for Undergraduate Research) <ul style="list-style-type: none"> 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. 	06/2014-09/2014
	STARS (Summer Training Academy for Research in the Sciences) Program <ul style="list-style-type: none"> Summer research program that requires students to attend a lab and conduct and present their research to other students and faculty. 	06/2013-09/2013
Research Conferences and Presentations	Poster Presentation at SACNAS (Society for Advancement of Chicanos and Native Americans in Science) Conference at Los Angeles, California	10/18/2014
	Poster Presentation at UC Los Angeles SPUR Research Conference	10/27/2014
	Oral Presentation at UC San Diego Undergraduate Research Conference	04/26/2014
	Poster Presentation at UC LEADS Conference at UC Riverside	04/22/2014
	Poster Presentation at SACNAS Conference at San Antonio, Texas	10/04/2013
	Oral Presentation at STARS Research Conference at UC San Diego	08/15/2013
Awards	Walsh Chacon Scholarship <ul style="list-style-type: none"> 3.0+ cum GPA demonstrating college-level academic, campus or community service and/or leadership and who attended Toussaint Academy of the Arts and Sciences 	2014-Present
	NACME Scholarship <ul style="list-style-type: none"> Full-time, Latino, 2.8+ cum GPA, in engineering program 	2013-Present
	SACNAS Travel Scholarship <ul style="list-style-type: none"> Requires recommendation form from a professor and pays for housing and travel fees 	2013
	Provost's Honors <ul style="list-style-type: none"> At least twelve graded units in a quarter and a min average GPA of 3.5 	4 Quarters
	International Baccalaureate (IB) Diploma at San Diego High School - Int'l Studies <ul style="list-style-type: none"> Diploma awarded to students who complete the rigorous and knowledge-rewarding IB program. 	2011
	Salutatorian at San Diego High School – Int'l Studies	2011
Volunteering/ Extra-Curricular	UCSD Badminton Intercollegiate Club <ul style="list-style-type: none"> Attending practices and competition events. 10 Hrs. / Week. 	2011-Present
	Tzu Ching Volunteering Club <ul style="list-style-type: none"> Volunteering for STEM tutoring services in a minority-populated area. 	2011-Present
	Video Game Development Club <ul style="list-style-type: none"> Developed a small video game using Java and demonstrated it at end of season. 	2012-2013
	Sage Volunteer Tutor <ul style="list-style-type: none"> Guiding students of non-computer science backgrounds to understand the basics of programming with a Java-like API called Alice. 	2012
Leadership	Elected Captain of UCSD Badminton Intercollegiate Club <ul style="list-style-type: none"> Planned, prepared, executed budget, practice and event plans. 15 Hrs. /Week. 	2012-2013

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Languages

English: Native language

Spanish: Intermediate Listener and Speaker, Advanced Reading and Writing

Turkish: Basic Listener and Speaker