

Gabriel V. de la Cruz Jr.

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EDUCATION

Washington State University, Pullman, Washington, USA

- Doctor of Philosophy (Ph.D.) in Computer Science Jan 2014 – Expected 2019
 - Adviser: Dr Matthew E. Taylor
 - Research areas: Reinforcement learning, transfer learning, robotics.
 - Cumulative GPA: 3.63 / 4.00
- Post-Bachelor's in Computer Science (3 semesters) Aug 2012 – Dec 2013
 - Cumulative GPA: 3.91 / 4.00

Thomas Edison State University, Online Campus

- Associate in Applied Science (A.A.S.) in Applied Health Studies Jul 2008 – Feb 2009

Cebu Institute of Technology (CIT) University, Cebu City, Cebu, Philippines

- Bachelor of Science (B.S.) in Information Technology Mar 2001 – May 2005
 - Graduated cum laude.
 - Cumulative GPA: 4.5 / 5.0

PROFESSIONAL EXPERIENCE

Graduate Research Assistant 2014 – Present
School of Electrical Engineering and Computer Science, Washington State University

Undergraduate Research 2013
College of Veterinary Medicine, Washington State University

Hospital Corpsman 2005 – 2012
United States Navy

Software Development Intern 2004
Information Systems Development Department, CIT University

Administrative and Support Staff 2001 – 2005
Software/Multimedia Development and Training Center, CIT University

RESEARCH EXPERIENCE

Intelligent Robot Learning Laboratory, Washington State University

- Project: Agent Corrections to Pac-Man from the Crowd 2014 – Present
 - Research areas: Reinforcement learning, crowdsourcing.
 - Redeveloped existing reinforcement learning algorithms to fit the needs of the user study.
 - Developed a user study to determine the crowd's ability to identify a mistake using Amazon's Mechanical Turk.

College of Veterinary Medicine, Washington State University

- Project: Identifying allele patterns on Anaplasma Marginele protein sequences 2013
 - Research areas: Algorithm development, bioinformatics, microbiology.
 - Developed a program that can identify the composition of protein sequences that will be used by researchers in WSU to trace changes of genome sequences in animal disease transmission.
- Project: Rapid algorithm for detecting antibiotic resistance gene sequences 2013
 - Research areas: Algorithm development, bioinformatics, microbiology.

PUBLICATIONS

- [1] **Gabriel V. de la Cruz Jr**, Bei Peng, Walter S. Lasecki, and Matthew E. Taylor. Towards Integrating Real-Time Crowd Advice with Reinforcement Learning. In *The 20th ACM Conference on Intelligent User Interfaces (IUI)*, Mar 2015. 41% acceptance rate for poster submissions
- [2] **Gabriel V. de la Cruz Jr**, Bei Peng, Walter S. Lasecki, and Matthew E. Taylor. Generating Real-Time Crowd Advice to Improve Reinforcement Learning Agents. In *Proceedings of Learning for General Competency in Video Games workshop (AAAI)*, Jan 2015.

SKILLS

C, Python, C++, ROS, HTML.

ACADEMIC AWARDS	▪ Google and Student Veterans of America Scholarship, Google For veterans with strong academic performance pursuing computer science. One of 8 awardees in the US.	2014
	▪ President's Honor Roll, Spring 2013 through Fall 2013, Washington State University For attaining a semester GPA of at least 3.75.	2013
	▪ Auvil Scholars Fellowship, Washington State University As financial support for undergraduates participating in research.	2013
	▪ Research Skills Short Course Boeing Explorers, Boeing	2012
	▪ College Honor Roll, through all semesters, CIT University For attaining a semester GPA of at least 4.0 out of 5.0.	2001 – 2005
OTHER AWARDS	▪ Google Scholar Hackathon, Engineer's Choice (First Prize), Google Awarded at the 2015 Google Scholars' Retreat at the Google Headquarters in Mountain View.	2014
	▪ Navy and Marine Corps Achievement Medals For an exceptional performance during two combat deployments in Afghanistan.	2010, 2012
	▪ Private Schools Athletic Association (PRISAA) Computer Quiz Bowl, Champion Represented our province to an inter-collegiate competition at the Regional level.	2004
	▪ Cebu Schools Athletic Foundation Inc. (CESAFI) Computer Quiz Bowl, Champion Represented our university to an inter-collegiate competition at the Provincial level.	2004
	▪ College of Computer Studies Programmer of the Year, CIT University	2004
CONFERENCE EXPERIENCE	▪ Attended the ACM/IEEE International Conference in HRI, Portland, Oregon, USA	2015
	▪ Attended the AAAI Conference on Artificial Intelligence, Austin, Texas, USA	2015
	▪ Attended the AAAI Conference on Artificial Intelligence, Bellevue, Washington, USA	2013
TEACHING EXPERIENCE	School of Electrical Engineering and Architecture, Washington State University	
	▪ Teaching Assistant	
	• Reinforcement Learning	2015
	• Program Design and Development in C	2013
	▪ Tutorials	
• Basics on computer vision processing and blob detection using OpenCV for Robotics Club	2014, 2015	
• Introduction to Python programming for Robotics Club	2015	
• Introduction to using Git for Robotics Club	2014	
CAMPUS ACTIVITIES	1st Hardware Hackathon, Washington State University	
	▪ Co-organizer	2015
	Robotics Club, Washington State University	
	▪ Project leader, CS team lead for developing an autonomous beer pong robot	2015 – Present
	▪ Club officer	2014 – Present
	Louis Stokes Alliance for Minority Participation, Washington State University	
	▪ Tutor, mentor	2014 – 2015
	Computer Students' Society, CIT University	
	▪ Vice-President (Internal)	2004 – 2005
	▪ Tutor	2003 – 2005
Society of Non-Academic Scholars, CIT University		
▪ President	2003 – 2004	

**COMMUNITY
SERVICE &
OUTREACH**

- Taught micro-controller programming during a Robotics Club outreach event at the LaCrosse School District. 2015
- Provided a hands-on experience on flying quad-rotors to 40 kids, ages 7-12, during a cub scout event. 2015
- Assisted in the robotics workshop for 41 girl scouts grades K-12. 2015
- Presented robotic projects during the 6th Annual Kids Science and Engineering Day. 2015

**MILITARY
EXPERIENCE**

- Held several leadership and upper administrative positions such as Work Center Supervisor, and Assistant Leading/Leading Petty Officer.
- Responsible for the accountability, training, supervision, evaluation, career development, counseling, and employment of junior Sailors.
- Performed well under extreme stress and pressure.
- Developed and implemented programs that requires proper delegation of jobs, time management, good coordination and communication with all units involved.
- Analyzed yearly inspection requirements, then coordinated and delegated tasks by sections to ensure optimal employment of personnel under a time constraint. This resulted in 6 out of 8 sections receiving a score of 100% with an overall score of 98% for the battalion.
- Managed and accounted for over \$1,000,000 worth of medical supplies and equipments that provided critical mission ready support in Afghanistan for three forward operating medical facilities.
- Prepared reports to be submitted to unit commanders.
- Performed clinical duties that includes taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, perform minor procedures, and administering immunizations and medications as directed by the physician/medical officer.

LANGUAGES

- English: Fluent (speaking,reading,writing).
- Filipino/Tagalog: Fluent (speaking, reading, writing).
- Visayan/Cebuano: Native language.

[CV compiled on 2016-02-14 for gabelacruz.com]