



2019 Scholar on Campus Nominee: Aparicio Carranza, PhD

Aparicio Carranza is an Associate Professor in the Department of Computer Engineering Technology at The New York City College of Technology (CUNY), Brooklyn, NY; and was the Department Chair from 2007 to 2013. He is an adjunct faculty in the Engineering Department (CE & EE) at The State University of New York (SUNY) in New Paltz, NY, where he has taught: Computer Simulation, C/C++ for Engineers and Scientist; and Digital Signal Processing (DSP) both at the Undergraduate and Graduate levels since Spring 2015 (*received the best adjunct instructor award in 3 occasions*). He is also an adjunct faculty in the Department of Mathematics & Computer Science at Marist College in Poughkeepsie, NY, where he has taught Data Communications courses, both at the Undergraduate and Graduate Level (*online & onsite since Fall 2016*).

Professor Carranza earned his Doctorate in Electrical Engineering from The Graduate School and University Center (CUNY); Bachelor of Science in Electrical Engineering (summa cum laude) and Master of Science in Electrical Engineering from The City College of New York (CUNY); and an Associate of Applied Science in Electronics Circuits and Systems (summa cum laude) from Technical Career Institutes of New York.

Dr. Carranza worked as an engineer and scientist at the Development Division of IBM Corp. in Poughkeepsie, NY for several years. He was a design engineer team member for the I/O Switches for the IBM RS-6000 Parallel Computers, Logic Verification and Simulation of Input/Output subsystem for the S/390 mainframe computers, failure analysis of I/O adapter cards, PCB schematics development; and also led the development of the hardware design and simulation process for ISO 9001 Certification by Underwriters Laboratories (UL)

Dr. Carranza has served as on the advisory council to five colleges (*Vaughn College of Aeronautics and Technology, NY; DeVry University, NY; Bronx Community College (BCC), NY; Technical Career Institute College of Technology (TCI), NY; and SUNY Rockland Community College, NY*).

Professor Carranza joined the CET Department at CityTech as an adjunct in fall 1996 and as full-time faculty in fall 2000. He has upgraded and taught a wide range of courses at the Associate/ Bachelor's level: analog/digital electronics, programming languages, applied engineering analysis, data communications, Cybersecurity, Linux OS, Applied Digital/Software Technology, engineering design and other related courses to name a few.

Dr. Carranza's research interest involves Cybersecurity and Technology Education, Software Defined Networking (SDN), Virtualization and Cloud Computing - One of the most important contributions of Dr. Carranza at CityTech during his 19 years+ is that he has involved dozens of students in

undergraduate research. Many students under his supervision have presented/published papers at national and international conferences (*Canada, England, Spain, Dominican Republic, Costa Rica and Peru*). In 2016 in Canada, he and his students received the best paper award; and in 2017, in Costa Rica his students' were awarded second place award in the best student paper category, from 80+ papers submitted, including PhD students' work.

Dr. Carranza has published a book chapter, Several journal papers; and numerous papers in conference proceedings. He has been a keynote speaker in Ottawa, Canada (May 2016) and will again be in Lisbon, Portugal (*August 21 – 23, 2019*). He has served as a conference presentation chair, and currently, is serving as a journal editorial board member. Furthermore, he has served as a Scientific and Technical Committee member at more than 7 International Conference venues (*ASEE, CIST, ONDM, CIT, ICA3PP, HPCC, LACCEI*), review submitted technical papers. At CityTech, Dr. Carranza, with his students, has presented 50+ posters during the poster session presentations (November 2003 – 2018).