



Dr. Lynn Robert Carter has been with Carnegie Mellon University for the last 15 years and is currently both a Carnegie Mellon University Principal Fellow and a Visiting Scientist of the Software Engineering Institute in Pittsburgh Pennsylvania.

As a founding faculty member of the professional masters programs at Carnegie Mellon West, Dr. Carter was responsible for implementing an “immersive, learn by doing” approach to software engineering education. His commitment to the process of continuously improving higher education in the U.S.A. is reflected in his role as a Computing Accreditation Commissioner for the Accreditation Board for Engineering and Technology (ABET).

He has served as the Director of Systems Engineering at EdgCore Technology, Inc. where he worked to standardize mechanisms of communication between concurrent, dissimilar operating systems within a single computing system. Prior to EdgCore, he was the President and CEO of Network Solutions, Inc. (NSi), a communications test-equipment manufacturing company, where he was responsible for salvaging the data communications product development project, extending it to support both local area as well as wide area networks. Dr. Carter has performed research at Motorola, Inc., in Tempe Arizona, as well as worked as one of the highest ranking software engineers at Textronic, Inc. in Portland, Oregon.

He has been a part-time teacher at a number of colleges and universities since 1971, including Arizona State University, University of Colorado, Portland State University, University of Portland, and Pacific University. At these institutions he taught graduate and undergraduate classes in programming languages, compiler construction, and operating systems. He also served on several PhD committees, led a Masters Thesis committee, and participated in many administrative committees.

Dr. Carter holds a bachelors and masters degree from Portland State University, both degrees in mathematics, and a doctorate in computer science from the University of Colorado at Boulder

Dr. Carter is the author of *An Analysis of Pascal Programs* published by UMI Research Press and “Code Generation for a Single Address Machine”, published by Acta Informatica. He has co-authored, with W. M. Waite, a senior level undergraduate text, “An Introduction to Compiler Construction”, published by Harper Collins, and several papers published by *Software -- Practice and Experience*.

For more information: http://west.cmu.edu/who_we_are/faculty_staff/directory/1614897.html



Frank has been leading process improvement work since 1991. Currently, he is Director of Process Improvement at ProLogic, Inc., a software development company. He is also manager of ProLogic's Advanced System and Software Engineering Technology (ASSET) program. The ASSET program provides an end-to-end project management tool to NASA's software assurance research program. Recently, as SEI Quality Coordinator, Frank led the Director's Office in identifying its core values. He facilitated strategic planning and the establishment of a balanced scorecard institute performance measurement system. He measured organizational efficiency and effectiveness and established internal process improvement projects. As a private management consultant, Frank led entrepreneurs in developing and implementing business plans to commercialize technologies ranging from heat exchangers to drug delivery systems. He consulted with small companies to improve administrative and production processes. As an employee working for the Director of a 300-person government R&D organization, he established quality management processes that resulted in 50-percent budget share increase, 40-percent overhead cost reduction, a 5-fold increase in CRADAs, and employee process improvement recommendations that netted up to \$200K savings each. He established a cadre of 40 team facilitators, and established a cascade-down quality management training system. Frank led teams that replaced conventional performance appraisals with a 360-degree pass/fail system whose output is an individual development plan, established an organization-wide information management system that gives all employees access to all key business information, and established a customer satisfaction measurement system. As manager of market and technology assessment, Frank led a team of engineers and economists who provided strategic guidance to product and administrative managers. His team simulated energy conversion processes, estimated their technical and economic performance, and analyzed them against current and prospective market forces. As an engineer and project manager, Frank invented and developed fuel cell, coal combustion, and heat engine technologies.

Education

- Master of Business Administration, West Virginia University
- Master of Science Mechanical Engineering, West Virginia University
- Bachelor of Science, Physics, Duquesne University

Professional Memberships and Activities

- Certified Quality Manager, American Society for Quality
- Certified Quality Engineer, American Society for Quality

For more information: <http://www.sei.cmu.edu/staff/fdg/>