

# Curriculum Vitae

## Abel A. Fernandez, PhD, PE

### EDUCATION

Ph.D. in Industrial Engineering University of Central Florida Orlando, FL	August 1995
B.S., Electric Power Engineering M.E., Electric Power Engineering M.B.A. Rensselaer Polytechnic Institute Troy, NY	August 1974 May 1976 May 1976

### PROFESSIONAL REGISTRATION

Registered Professional Engineer #47583, State of Texas

### EXPERIENCE:

University of the Pacific Stockton, CA	August 2000 -Present
Professor Associate Professor	2006- Present 2000- 2006
Director of Engineering Management Program	2000- Present
Old Dominion University Norfolk, VA	August 1995 -May 2000
Assistant Professor Department of Engineering Management	
NASA Graduate Student Researcher Fellow Kennedy Space Center, FL	1993- August 1995

Full time study for the degree of Ph.D. in Industrial Engineering. Research topic was the optimization of resource constrained project schedules with stochastic task durations. The specific application examined was the shuttle orbiter ground processing at Kennedy Space Center.

University of Central Florida  
Orlando, FL 32816 1988- 1993

*Professional Development Grant* Fall 1993

Competitively awarded University grant providing full leave one semester.

*Assistant Chair and Instructor* 1991 - 1993  
*Department of Industrial Engineering and Management Systems*

Administrative and teaching responsibilities, with 50% time allocation to each of these duties. Administrative responsibility within the Department included the day to day operations, including budget management, undergraduate student advising, class scheduling, student recruitment and other similar duties.

*Director of Industrial Relations* 1988 - 1991  
*College of Engineering*

Led effort for communication and cooperation between the College of Engineering and industry and was the primary responsible party for developing linkages between the College of Engineering and external organizations. Areas of concentration included research, scholarships, grant development and internal publications. Responsible for the identification of needs and potential resources to meet these needs.

Harris Corporation, Controls Division  
Melbourne, FL 32981 1978- 1988

*Director, Product Marketing* 1986 - 1988  
*Manager, Applications Engineering* 1984 - 1986  
*Section Head, Applications Engineering* 1983 - 1984  
*Systems Engineer* 1978- 1983

Progressively more responsible positions within the systems/applications engineering department of the Controls Division of the Harris Corporation, a Fortune 250 company. The final position held, Director, is designated as an executive position within the Harris corporate labor classifications. In this position was responsible for all applications engineering and strategic planning for the Division. The latter included formulation of business plans, product requirements documents and approval of all standard product specifications for the Division.

TRW Controls  
Houston, TX 1976- 1978

*Power Systems Analyst* 1976 - 1978

Design of advanced applications software for-time computer based control systems for electric power utilities.

## **SCHOLARLY ACTIVITIES**

### **BOOK CHAPTERS**

Kauffman, Paul J., Kim, Kwangae, and Fernandez, Abel A., "Use of a Logit Choice Model for Evaluating Advanced Technology Feasibility." Economic Evaluation of Advanced Technologies: Techniques and Case Studies, Edited by Jerome P. Lavelle, Hampton R. Liggett, and Hamid R. Parsaei, New York, Taylor and Francis Publishers, 2002, pp. 69-82.

Fernandez, A., Jacobs, D., Keating, C. and Kauffmann, P., "A Market Attraction Model for Predicting the U.S. Market Share of Large Aircraft", *Journal of Air Transport Management*, V 6, No. 1, 1999, pages 31-38.

Fernandez, A., Jacobs, D., Kauffman, P., Sizemore, D., "Assessing Community Fire Risk: A Decision Analysis Based Approach", *Journal of Applied Fire Science*, V 8, No. 3, 1999, pages 195-214.

Fernandez, A., Armacost, R. and Edwards, J., "Understanding Simulation Solutions to Resource Constrained Project Scheduling Problems with Stochastic Task Durations", *Engineering Management Journal*, V 10, No. 4, December 1998, pages 13-15.

Fernandez, A. "Definitive Scenario Standard Edition Release 2.0: A Decision Analysis Tool for the Masses", *OR/MS Today*, August 1998, pages 50-51.

Fernandez, A. "Expert Choice Professional Version 9.0 for Windows: A Software Review", *OR/MS Today*, August 1996, pages 88-91.

## **SCHOLARLY ACTIVITIES**

### **REFEREED INTERNATIONAL AND NATIONAL PROCEEDINGS**

Kauffmann, Paul, Fernandez, Abel, Keating, Charles, Jacobs, Derya, Unal, Resit, "Selection of Curricular Topics Using Extensions of Quality Function Deployment", *Proceedings of the 2000 American Society for Engineering Education Conference*, June 2000.

Kauffmann, Paul, Fernandez, Abel, Keating, Charles, "Using Conditional Probability to Develop a Distribution Center SPC Plan", *Proceedings of the 2000 Industrial Engineering Research Conference*, May 2000.

Fernandez, Abel A., Jacobs, Derya A., Kauffmann Paul J., and Keating, Charles, "Forecasting Market Share of U.S. Com(m)219etn1(,)-1-1( J)-7(aco)-4(b)-4(s)6(,)-M4(r1(s))sinabc,nn5 *Proceedings of the 2000 Tc* 0. Pr [(S)4(P)-8(CN44(en C)10(onf)ngi)7((e)4(r)9(e)4(nc))TJ /TTO 1(ngs)9(he)4(



Fernandez, A., "Analysis and Comments: Impact of Rule 4 Supplement Update 29 July 1998", September 4, 1998 (27 pages).

Fernandez, A., "A Review of the J. Berk Report Entitled: An Analysis of Claims Related Direct Labor Costs on the MK 214 and MK 216 Production Programs", September 4, 1998 (62 pages).

Fernandez, A., Manning, E. and Rawls, G. "Equitable Adjustment Claims Analysis", July 1, 1998 (117 pages).

Fernandez, A., Bao, H., Ozcan, M., Johnston, J., Cooper, R. "Certification Process Review - Raytheon Missile Systems Company", June 26, 1998 (18 pages).

Fernandez, A., "U.S. Market Share Predictor Models and Forecast Through the Year 2016", report submitted to the Logistics Management Institute, November 1997 (58 pages).

Fernandez, A., "U.S. Market Share Predictor Models and Forecast Through the Year 2016", report submitted to the Logistics Management Institute, September 1997 (112 pages).

Fernandez, A., "Historical Market Share Analysis: Commercial Aircraft Industry", report submitted to the Logistics Management Institute, June 1997 (77 pages).

Bao, H. and Fernandez, "Final Report on Fleet Modernization Program Design Services Allocation - Application of Statistical Methods", final report for U.S. Navy Pricefighters Department, September 1996 (25 pages).

Fernandez, A., "An Impact Analysis of the Integrated Wing Design Project", NASA Langley Research Center, final report for the work done under 1996 NASA/ASEE Summer Faculty Fellowship Program (35 pages).

Fernandez, A., "The Optimal Solution to Resource Constrained Project Schedules with Stochastic Task Durations", *Research and Technology 1995 Annual Report*, NASA John F. Kennedy Space Center (2 pages).

Fernandez, A., "Optimization of Stochastic Resource Constrained Project Schedules", *Research and Technology 1994 Annual Report*, NASA John F. Kennedy Space Center (2 pages).

#### **PRESENTATIONS NOT PUBLISHED**

Blackstock, Dexter and Fernandez, A., "A Student Perspective of a Capstone Course for Engineering Management", *18th National Conference of the American Society for Engineering Management*, October 1997.

#### **GRANTS AWARDED:**

Saviz, C., Fernandez, A. (PIs), "Sustainable energy use for the Stockton Campus", Scholarly/Artistic Activity Grant, March 2008, \$3,150.

Khoie, R., Saviz, C., Fernandez, A., (PIs), "Technology Equipment Grant", Hewlett Packard Foundation, Spring 2006, \$69,000.

Fernandez, A., "FMEA Applied to an Automotive Supplier", Parker Hannifin Corporation, Racor Division, Fall 2005, \$5,000.

Khoie, R., Saiz, C., Fernandez, A., Watson, K., Gholambari, M. ~~(PI)~~, "First year student retention", SIA, Fall 2005, \$20,000.

Fernandez, A. ~~(PI)~~ and Burmeister, J. ~~(PI)~~, "Statics in the Field: Injecting Practice into Theory", CAPD Travel and Small Project Grant, University of the Pacific, November 2003, \$2,300.

Fernandez, A. (Principal Investigator), "Decoy Missile Study Continued Work", U.S. Navy, Norfolk, Virginia, Spring 1999, \$18,530

Fernandez, A. (P.I.), Manufacturing Process Improvements, ~~Bridge~~, Chesapeake, VA, Fall 1998, \$13,545

Fernandez, A. (P.I.), "Decoy Missile Study Continued Work", U.S. Navy, Norfolk, Virginia, Fall 1998, \$10,923





University Sustainability Action Group, 2007-2009  
Deans (School of Engineering) 5 Year Performance Evaluation Committee Co-Chair, 2005-06  
Dean Search Committee (Eberdhart School of Business), 2005

Reviewer, 2<sup>nd</sup> Edition, *Project Management: A Managerial Process*, Gray, C. and Larson, E., McGraw-Hill/Irwin, December 2003.

Referee, *International Journal of Technology Transfer and Commercialisation (IJTTC)*, "Implementation Considerations for Development of a Web Based Decision Support System for Risk Based Corrective Analysis" by V. Uddameri, 15 January 2002.

Referee, *International Journal of Technology Transfer and Commercialisation (IJTTC)*, "Development and Commercialization of Innovative Environmental Technologies" by J. Sanchez and C. Garcia, 15 January 2002.

Referee, 2000 Merritt A. Williamson Award, *American Society for Engineering Management* October 2000.

Editorial Board, *Engineering Management Journal* 1999-2002.

Program Committee Member, *1999 Portland International Conference on Management of Engineering and Technology*, July 1999.

Referee *Proceedings of the 1999 Portland International Conference on Management of Engineering and Technology*, July 1999.

Technical Program Chair, 19<sup>th</sup> National Conference American Society for Engineering Management, October 1998.

Member, Doctoral Student Affairs Committee, Decision Sciences Institute, Fall 1997.

Seminar, "Using the Analytic Hierarchy Process for Decision Making", Department of Mechanical Engineering, Old Dominion University, November 1997.

Technical Program Chair, 18<sup>th</sup> National Conference American Society for Engineering Management, October 1997.

Referee *IIE Engineering & Management Press*, review of manuscript "The Masters' Secrets to Success", May 1997.

Discussant *Proceedings of the 1997 Annual Northeast Decision Sciences Meeting*, April 1997.

Referee *Proceedings of the 1996 Decision Sciences Institute Annual Meeting*, November 1996.

Referee *Proceedings of the 5<sup>th</sup> Industrial Engineering Q7*

Ph.D. Dissertation, William Eldred, "An Evaluation of the COCOMO 2.0 Early Design Model As a Predictor of Software Development Cost Using Function Points As an Input", Department of Engineering Management, (graduated December 1998).

Ph.D. Dissertation, Cathy C. Roberts, "Processes for Managing Uncertainty with Contingency Planning", Department of Computer Science, (graduated May 1998).

Ph.D. Dissertation, Daniela M. Rosca, "Decision Making Methodology in Support of the Business Rules Lifecycle", Department of Computer Science, (graduated December 1997).

Master's Thesis, James L. Bagley, "A Proposed Approach to ISO 9000 Compliance and Validation for Metrology Laboratories", Department of Engineering Management, (graduated December 1997).

Ph.D. Dissertation, Richard Monroe, "A Synthesized Methodology for Eliciting Expert Judgment for Addressing Uncertainty in Decision Analysis", Department of Engineering Management, (graduated August 1997).

Master's Thesis, Richard E. Marriner, "The NOAA Corps Participant Action Research of A Uniformed Service Facing Termination", Department of Engineering Management, (graduated August 1996).