

James H. Barnard
1401 Riverplace Blvd, #1402
Jacksonville, FL 32207
Cell: 407-620-5950
Email: james.h.barnard@gmail.com

Education

University of Central Florida

Ph.D., Industrial Engineering, December 2006

- *Research Interests:* Document Methodology and Workflow, Supply Chain Management, Industrial Engineering Applications in Service Industries
- *Dissertation Topic:* A Multi-view Framework for Defining the Services Supply Chain Using Object Oriented Methodology
- *Committee Chair:* Mansooreh Mollaghasemi, Ph.D.

M.S., Engineering Management, August 1998

- *Research Interests:* Decision Support, Data Mining
- *Major Course Work:* Analytics and Decision Science
- *Minor Course Work:* System and Work Place Safety

B.S., Aerospace Engineering, August 1997

- *Discipline Focus:* Unmanned Aerial Vehicle Design, Aerodynamics, Control Systems

Academic

Embry-Riddle Aeronautical University, November 2007 - Present

Assistant Professor and Program Chair – Logistics and Supply Chain Management, Department of Business Administration with a joint appointment to Department of Engineering Sciences

- Academic Focus:
 - Logistics, Supply Chain Management and Operations Research
- Achievements:
 - Facilitated the continued launch of a new Masters of Science in Logistics and Supply Chain Management recruiting over 100 new students within first three months of offering
 - Designed 3 graduate and 2 undergraduate courses for online delivery (as of Fall 2009)
 - Co-Founder of The Center for Aviation and Aerospace Leadership (CAAL)
 - Developed SACS Program Assessment requirements for the Masters of Science in Logistics and Supply Chain Management
 - Instructor for undergraduate and graduate logistics and supply chain management courses (15 total since 2007)
 - Featured as the Institute of Industrial Engineers “Work Perfect” profile in December 2009
- Responsibilities:
 - Faculty Senator (November 2007 – Present)
 - Committee Member Faculty Senate Restructuring (July 2009 – Present)
 - Committee Member Faculty Senate Undergraduate Curriculum Committee (October 2009 – Present)
 - Committee Chair – 2nd Life in the Curricula advising committee
 - Faculty Senate Parliamentarian (October 2008 – Present)
 - Assistant Program Chair (November 2007 – August 2008)

- Program Chair – Logistics and Supply Chain Management (August 2008 – Present)
- Centre for Aviation and Aerospace Leadership – Director
- i2i – Director of Knowledge Management and Technology
- Industry Advisory Board interface for program
- Lead one faculty search committee, served on three faculty search committees
- Graduate Program Responsibilities
 - Instructor of record and course monitor/developer for LGMT 682 Integrated Logistics Management (Delivered Live and Online)
 - Instructor of record and course monitor/developer for LGMT 683 Supply Chain Management (Delivered Live)
 - Instructor of Record for LGMT 685 International Logistics and Supply Chain Management (Delivered Live and Online)
 - Instructor of Record LGMT 636 Transportation Management (Delivered Online)
 - Instructor of Record and monitor/developer LGMT 634 Analytical Decision Making for Logistics and Supply Chain Managers (Delivered Live and Online)
 - Instructor of Record and monitor/developer of LGMT 536 Purchasing for Logistics and Supply Chain Managers
- Undergraduate Program Responsibilities
 - Instructor of record and course monitor/developer for LGMT 444 Introduction to Supply Chain Management (Delivered Online)
 - Course monitor/developer for LGMT 411 Logistics Management for Aviation/Aerospace

University of Central Florida, Fall Semester 1998

Adjunct Professor, Industrial Engineering and Management Systems Department

Taught graduate level MIS survey class for the Industrial Engineering graduate program

- Class delivery was a combination live and distance learning
- Developed all course materials
- Primary focus of class was on the business process design function of information technology departments.

Publications

Editor

Theme Editor:

Logistics Spectrum (Vol 44, No 4 "Logistics Education")

Logistics Spectrum (Vol 43, No 4 "Modelling and Simulation")

Books

(In Progress) Barnard, J. and Garmon, J. Introduction to Systems Logistics. SOLE Press 2011.

(In Progress) Barnard, J. and Garmon, J. Enterprise Logistics. SOLE Press 2011.

Interviews

Smith, N. (2009, December). [Interview with **James Barnard**, professor at Embry-Riddle Aeronautical University-Worldwide]. IE Magazine, pp. 66.

Proceedings Published

Barnard, J. "Security Maturity Models for International Logistics." SOLE 2009 Proceedings, August 18-20, 2009, Dallas, TX.

Barnard, J. "Data Warehousing for Health Care: Moving Towards a Networked Solution," *Proceedings of the Industrial Engineering Solutions 2000 Conference*, May 22-24, 2000, Cleveland, OH.

Proceedings Submitted

Barnard, J. and Barnard, T. "Logistics and Power Generation Construction: A New Paradigm." SOLE 2010 Proceedings, August, 2010, Dallas, TX.

Barnard, J. and Garmon, J. "Total Cost of Ownership: Simulation of the Hidden 20%." SOLE 2010 Proceedings, August, 2010, Dallas, TX.

Refereed Published

Barnard, J. A Multi-view Framework for Defining the Services Supply Chain Using Object Oriented Methodology. Diss. University of Central Florida, 2006. Orlando: UMI 2006.

Refereed Submitted

Barnard, J. Working Title - The need for a distinct Services Supply Chain Framework (Submitted to International Journal of Service Management) 2009 (Note: Waiting for comments.)

Barnard, J. Working Title - S2COR – A services framework (Submitted to Journal of Supply Chain Management) 2009 (Note: Waiting for comments.)

Barnard, J. Working Title - Services Supply Chain Benchmarks (Submitted to International Journal of Operations Management) 2009 (Note: Waiting for comments.)

Refereed In-Progress

Barnard, J. Multi-Dimensional Knowledge Management: n-dimensional Relationships and The Decision Influence (Anticipated submission late 2010, *Journal*: Undecided)

Barnard, J., Bushnell, J. and Garmon, J. Total Cost of Ownership: Identification of Hidden Cost

Through Supportability and Reliability Simulation (Anticipated submission late 2010, *Journal: Naval Research Logistics*)

Barnard, J., Bushnell, J. and Garmon, J. Total Cost of Ownership: Project Management Portfolio Selection via Uncertainty Reduction (Anticipated submission late 2010, *Journal: Journal of Project Management*)

Barnard, J. and Garmon, J. Financial Decision Making: Simulation and Optimization (Working Title) (Anticipated submission late 2010, *Journal: Undecided*)

Barnard, J. and Garmon, J. Multi-Criteria Financial Decision Making: Controlling the Human Influence In Optimization Models (Working Title) (Anticipated submission late 2010, *Journal: Undecided*)

Barnard, J. and Garmon, J. Simulating the Human Decision: An Application of Non-Linear Methods to Financial Decision Making (Working Title) (Anticipated submission late 2010, *Journal: Undecided*)

Non-Refereed Submitted

Barnard, J., "Theme Note on Logistics and Simulation" *Logistics Spectrum*, 2009.

Barnard, J., "Logistics Education: How do we get from here to there?" *Logistics Spectrum*, 2010.

Barnard, J., "Theme Note on Logistics Education" *Logistics Spectrum*, 2010.

Barnard, J. and Garmon, J., "Simulation of Sustainable Energy Systems for Developing Countries" *Logistics Spectrum*, 2009.

Non-Refereed In Progress

Barnard, J. and Barnard, T., "Sustainable Power Generation Construction for the Next Decade (Working Title" *Logistics Spectrum*, 2010.

Barnard, J. and Bushnell, J. "The Hidden Cost in TCO" (Working Title)

Barnard, J. and Bushnell, J. "The Fallacy of EOQ in Supportability" (Working Title)

Barnard, J. and Garmon, J. "Optimizing Project Portfolios Using MCDA Simulation" (Working Title)

Masters Thesis
Committee Chair

Bock, J. A CASE STUDY OF J52 ENGINE STATOR PROCESS FLOW CONSTRAINTS.
Thesis. ERAU- Worldwide, 2008. Daytona Beach.

Brown, D. NAVY'S COSAL MODEL OF .5+ FILSP AND PREDICTED LEVEL OF READINESS TO THE SUBMARINE FLEET. Thesis. ERAU- Worldwide, 2010. Daytona Beach.

Bushnell, J. IMPACT OF JIT AND LEAN MANUFACTURING: PROCESS ON PERCEIVED QUALITY AND CUSTOMER SATISFACTION. Thesis. ERAU- Worldwide, 2010. Daytona Beach. (In Progress)

Crisler, V. NATIONAL CYBER-SECURITY LEADERSHIP INFRASTRUCTURE. Thesis. ERAU-

Worldwide, 2010. Daytona Beach. (In-Progress)

Sweere, J. AN INVESTIGATAION OF THE FACTORS INFLUENCING CERTIFIED FLIGHT INSTRUCTOR RETENTION AT PATRIOTIC FLYERS. Thesis. ERAU- Worldwide, 2010. Daytona Beach. (In Progress)

Committee Member

Shumate, W. An EMPIRICAL ANALYSIS OF THE IMPACT REORDER POINT QUANTITIES HAVE ON CUSTOMER SERVICE LEVELS. Thesis. ERAU- Worldwide, 2008. Daytona Beach.

Presentations

Barnard, James. "Security Maturity Models for International Logistics." SOLE 2009, August 18-20, 2009, Dallas, TX.

Barnard, James. "Data Warehousing for Health Care: Moving Towards a Networked Solution." *Industrial Engineering Solutions 2000 Conference*, May 22-24, 2000, Cleveland, OH.

Barnard, James. "Excellence in Health Care --- Turning the HIPAA Vision into Reality" 11th Annual WEDI National Conference. Denver, CO. 16 May 2002

Presentations (Accepted)

Barnard, J. and Barnard, T. "Logistics and Power Generation Construction: A New Paradigm." SOLE 2010, August, 2010, Dallas, TX.

Barnard, J. and Garmon, J. "Total Cost of Ownership: Simulation of the Hidden 20%." SOLE 2010, August, 2010, Dallas, TX.

Professional Certifications

Florida, Engineering Intern #1100001197, Passed 1996
Project Management Institute Project Management Professional (#1206718)
SOLE – The International Society of Logistics Certified Professional Logistician (2009)

Professional Memberships

American Institute of Aeronautics and Astronautics – Member
Institute of Industrial Engineers – Member (100975382)
SOLE – The International Society of Logistics – Member (50526)
Project Management Institute – Member (1212267)
Institute for Supply Management – Member (000000321198)
American Production and Inventory Control Society – Member (1712909)

Professional Society Involvement

SOLE - The International Society of Logistics
Director of Certification (2009 – Present)
Vice-President of Education (2009 – Present)
Member of the Executive Board of Directors (2010 – Present)

Member of the Board of Directors (2010 – Present)

Logistics Education Board of Advisors (2010 – Present)

Logistics Education Foundation

Member of the Executive Board of Directors (2010 – Present)

Member of the Board of Directors for (2010 – Present)

Industrial Experience

PricewaterhouseCoopers, LLP. Advisory Practice 04/2001 – 09/2002 and 07/2003 - Present

Senior Associate

- Industry Focus:
 - Health Care, Insurance, Pharmaceutical, Global Manufacturing
- Achievements:
 - Assisted in closing over \$2 million in total sales
 - Assisted with additional sales after initial engagement totalling over \$1 million
 - Developed Health Insurance Portability and Accountability Act (HIPAA) assessment software
 - Developed knowledge base for Enterprise Application Integration engagements
- Responsibilities:
 - Subject matter expert for Health Insurance Portability and Accountability Act consulting engagements
 - Project management of multiple international based projects
 - Technical and knowledge lead for Sarbanes-Oxley 404 related General Computer Control and Business Process assessments
 - Technical lead for verification and validation of ERP software related to FDA 21 CFR Part 11 and data quality validation
 - Team and Technical lead for IT Effectiveness engagements
 - Subject matter expert for Enterprise Application Integration technology
 - Technical consultant for many ERP install projects including SAP, JD Edwards/PeopleSoft/Oracle, and many others
 - Manager of multiple engagement teams staff, budget and timelines
 - Project Manager for International Projects including travel overseas

Protegrity Holdings, Inc., 09/2002 – 06/2003

Vice-President e-Business

- Industry Focus:
 - Insurance Third Party Administration, Workers Compensation, Property and casualty
- Achievements:
 - Successfully reduced staffing to appropriate levels without losing service level effectiveness
 - Reorganized the Information Technology Department and Budget to align with business goals
 - Lead a successful Business Re-engineering project for two subsidiaries
 - Introduced IT Effectiveness to the organization
 - Implemented software design standards
 - Developed business continuity and disaster recovery plans
- Responsibilities:
 - Managed an initial staff of 27 individuals and budget of \$5 million
 - Staffing included 2 Directors of e-Business, 5 Help Desk, 5 Decision Support, 10 Programmers, 5 IT Operations
 - Managed all office equipment, telecom and all office moves
 - Subject matter expert for HIPAA for holding company and subsidiaries
 - Business Process Re-engineering including ERP
 - Internal IT Controls and segregation of duties

- Alignment of IT strategic and tactical plan with holding company and subsidiary goals

First Consulting Group, Inc., 04/1999 – 04/2001

Senior Integration Systems Analyst

- Industry Focus:
 - Health Care, Insurance, e-Health
- Achievements:
 - Team member for successful implementation of full life-cycle data warehouse
 - Demonstrated the ability of ETL Technology for use in data warehouse development
 - Part of experimental technology team demonstrating Enterprise Application Integration
 - HIPAA technology and e-health subject matter expert
- Responsibilities:
 - Systems analyst
 - Junior data architect
 - Junior decision support architect
 - Enterprise Application integrator
 - Oracle and ERP integration

Florida Hospital, 3/1998 – 4/1999

- Industry Focus:
 - Health Care
- Achievements:
 - Successful migration of mainframe EDI processes to UNIX based server architecture
- Responsibilities:
 - Application Development
 - Development and mapping of Electronic Data Interchange (EDI) transactions (837, 835, 820, 824, 850, 855, 856, 864 and 810)
 - On call application support for EDI
 - EDI system administrator (Mainframe and UNIX)

Skills

Information Technology

Software:	Microsoft Office, Microsoft Project, Microsoft Visual Studio Professional, SPSS, Minitab, MathCAD, MatLab, Adobe Creative Suite, Lotus Notes, various ERP applications
Programming:	C++, JAVA, UML, Visual Basic, Visual C++, PERL, UNIX Shell Scripting (KORN, BASH, C), TCL/TK, HTML, XML, COBOL, FORTRAN, PL/SQL, X.12, HL7
Database:	Oracle (8, 8i), DB2, SQL Server 2005
Design:	Microsoft Visio, AutoCAD, MatLab, UML, IDEF, SDRC Ideas,
Operating Systems:	UNIX (AIX, Solaris, HP-UX, LINUX), Windows (95, 2000, XP)
Network:	Cisco IOS, Network Design, Network Implementation

Engineering

Industrial Engineering:	Supply Chain Management, Engineering Management, Technology Management, Simulation, Process Design, Economic Analysis and Forecasting, Safety Management, Operations Management, ERP
-------------------------	--

Business

Finance: Economic Analysis, Budgeting, P/L Management, Optimization
Operations: International Business, Architecture, Process Design,
Forecasting, Controls, Optimization, Security
Regulatory: Risk Assessment, Impact Assessment, Process Assessment,
Mitigation Design, Implementation, Documentation,
Sustainability Planning, Security, Privacy, COSO, COBIT,
General Computer Controls, IT Audit Support, OFAC, Sarbanes-
Oxley 404

Language

Spanish (Intermediate)