

### ***EDUCATION***

MBA	University of Illinois at Urbana-Champaign – 2014
BSIE	Industrial & Management Engineering, University of Iowa

### ***PROFESSIONAL DEVELOPMENT***

CAPM	Certified Associate in Project Management – Project Management Institute (PMI) – 2019
CMMI	Capability Maturity Model Integration for Development – 2015 The CMMI Institute is concerned with developing best practices to achieve measurable improvement in the software development process
CIC/ITLP	Committee on Institutional Cooperation / IT Leaders Program, 2012 – 2013 Engagement around strategic and technological issues in higher education institutions in support of teaching, learning and research initiatives
ITLW	University of Illinois, IT Leaders Workshop – 2011
MCSD	Microsoft Certified Solutions Developer – 2000

### ***COURSES TAUGHT***

2019 – Present - *Simon Business School, University of Rochester, Rochester, NY*

- Project Management (OMG 416) (MBA Program)  
The study of the life cycle of a project. The student experiences first-hand the engagement of a project and the processes needed to deliver results. Topics include the management of requirements, integration, scope, schedule, budget, communication, risk, quality, human resources, stakeholders, procurement and closing of a project. Project management frameworks, best practices and capability maturity model for integration.
  - 2019 (FallA)

2016 – 2019 - *Business Information Technology (BIT) Department, Pamplin College of Business, Virginia Tech*

- Database Technology for Business (BIT 4514)  
The study of relational database design and implementation for the support of business systems. The student goes through the journey of assessing business requirements, translating those into a cohesive relational database design, culminating in an implementation of a fully functional physical database. Topics include relational database theory, structured query language, relational database design, and implementation of database management systems, their security and management. The systems development life cycle and database life cycle. Business intelligence, data warehouses design as analytic tools and data mining techniques. Document databases, and current online data sources.
  - 2017 (SP and FA two sections),
  - 2018 (SP, SU and FA),
  - 2019 (SP, SU)
- Project Management (BIT 4484)  
The study of the life cycle of a project. The student experiences first-hand the engagement of a project and the processes needed to deliver results. Topics include the management of requirements, integration, scope, schedule, budget, communication, risk, quality, human resources, stakeholders, procurement and closing of a project. Project management frameworks, best practices and capability maturity model for integration.
  - 2017 (SP two sections and FA),
  - 2018 (SP, SU and FA)
  - 2019 (SP)
- Introduction to Business Analytics Modeling (BIT 2434)  
The study of business operation's decision support models. The student applies statistical techniques to data creating computer solutions to business models. Includes computer solution and analysis of transportation, routing, queueing, forecasting and other management problems using such techniques

as linear programming, goal programming, simulation, and information systems. Easily available spreadsheet software is used to solve these problems.

- 2018 (SP and FA)
- 2019 (SP)
- Healthcare Data Management (BIT 5574 Graduate course)

The study of healthcare information systems and process management. The student engages in the development of an automated healthcare system addressing current information needs. Topics covered healthcare data quality relevant to patient care and safety, healthcare regulations on quality and outcomes, electronic health records, care management systems, business intelligence, HIPAA, healthcare process improvement and relational database design.
- 2019 (SU)

## ***RESEARCH***

- Increasing Physical Activity and Safe Play Among Female Youth – A Longitudinal Study
  - Purpose: Identify levels of activity participation, rates of attrition, and reasons for both participation and attrition for female youth in Pre-K through high school. (2019, Baker, Nottingham, Fernandez)
- Head Injury Among Female Youth – A Longitudinal Study
  - Purpose: Identify repeated emergent visits caused by sports or play, rates of occurrence, and tracking across disparate information systems. (2019, Baker, Nottingham, Fernandez)

## ***SERVICE & SYMPOSIA***

- Business Information Technology (BIT) Club Student Organization
  - Advisor (Fall 2016 - Present)
- Apex Systems Center for Innovation and Entrepreneurship
  - BIT Representative (Fall 2017 - Present)
- Health Analytics Summit (January, 2018)
- Business Intelligence & Healthcare Analytics Symposium (April, 2017)
- Advancing the Human Condition Symposium (November, 2018)

## ***PROFESSIONAL WORK HISTORY***

<b>Lecturer (Part-Time)</b> Simon Business School and Goergen Institute for Data Science University of Rochester, Rochester, NY – Higher Education	Aug, 2019 – Present
<b>Assistant Professor of Practice</b> Business Information Technology Department, Pamplin College of Business Virginia Tech, Blacksburg, VA – Higher Education	Aug, 2016 – Aug, 2019
<b>Adjunct Professor</b> Department of Management, Institute of Mines – Telecom Business School Evry Cedex (Paris), France – Higher Education	Jan, 2018 – May, 2019
<b>Enterprise Resource Planning / Developer / Contractor</b> CHI Overhead Doors, Arthur, IL – Commercial Manufacturing	Oct, 2015 – Jul, 2016
<b>Modeling and Applications Development Researcher / R&amp;D</b> Riverside Research, Champaign, IL – Government Classified Work	Sep, 2014 – Jan, 2016
<b>McKinley Health Center - IT Director</b> MHC, University of Illinois at Urbana-Champaign – Healthcare Sector in Higher Education	May, 2009 – Sep, 2014

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# P. J. Fernandez

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<b>Process Improvement / Project Manager / Contractor</b> Beacon Technologies, Inc., Madison, WI Care Wisconsin – Healthcare Insurance Sector, CUNA – Finance, Banking and Insurance Sectors	Sep, 2007 – May, 2009
<b>Project Manager</b> MHC, University of Illinois at Urbana-Champaign – Healthcare Sector in Higher Education	Jan, 2005 – Sep, 2007
<b>Senior Systems Architect / PM / Independent Consultant</b> Charlton Group, Madison, WI – Telemarketing Sector	July, 2002 – Jan, 2005
<b>Project Manager / Contractor</b> Specialized Billing Service of America, Madison, WI – Insurance Billing Sector	Mar, 2001 – July, 2002
<b>Project Manager / Technical Resource Manager</b> Tara Software, Inc. – Software Development Sector	Sep, 1998 – Mar, 2001
<b>Consultant / Independent Contractor</b> Galaxy Technologies, Inc., Middleton, WI – Time and Attendance, Payroll Sectors	May, 1997 – Sep, 1998
<b>Project Manager / R&amp;D Manager</b> ORCA Medical Systems, Bothell, WA – Healthcare Software Sector	Apr, 1996 – May, 1997
<b>Consultant / Contractor</b> Enertech, Brea, CA – Engineering Sector, Bankers Mutual, Newport Beach, CA – Multifamily Lending Sector, Los Angeles County Sheriff Department, Los Angeles, CA – Public Service Sector, JWC Environmental, Costa Mesa, CA – Engineering Sector, Coldwell Banker, Mission Viejo, CA – Real Estate Sector, 7 <sup>th</sup> Generation, Santa Ana, CA – Vocational Rehabilitation and Software Sectors	Mar, 1989 – Apr, 1996
<b>IT Manager – Logistics Division</b> McDonnell Douglas Astronautics, Huntington Beach, CA – Aerospace Sector	Jan, 1982 – Mar, 1989

## ***FUNCTIONAL HIGHLIGHTS***

- Leadership
  - Provide IT leadership and operational oversight in support of mission critical functions
  - Lead the efforts in business intelligence, data warehousing and analytical environments
  - Direct and supervise the Technical Support Call Center
  - Mentor and manage professional staff and establish resource allocation
  - Influence across internal units and organizational hierarchies
  - Recommend IT priorities to senior management
  - Participate in IT governance efforts for the organization
  - Represent the organization on outside engagements
- Strategic Planning
  - Developed a strategic vision for our group. Established a mission and specific objectives
  - Proposed milestones and operational accomplishments. Promote IT security measures
  - Delineated goals and success factors. Established plan for growing our competencies
  - Developed a personnel retention plan. Created self-assessment measurements
  - Ensured a Business Continuity Plan and Disaster Recovery Plan
  - Establish best practices for configuration management, requirements management, project planning, risk management, product quality assurance and organizational training
  - Develop measures for monitoring and control of project management processes
- Project Management
  - Plan IT projects and partner with units' leadership on successful implementation

- Support central organization's IT initiatives and support the Office of the Chief Information Officer (CIO) in the development and implementation of innovative technology systems
- Provide associated units with IT services and data migration solutions
- Work with the clients in the development of data mining systems and reports
- Developed in collaboration with unit managers, a Request for Proposal (RFP) for an Electronic Health Record and Practice Management System
- Fiscal Responsibility
  - Managed and planned IT systems procurement and physical plant improvements
  - Purchased and supported two IT computer center server rooms, power conditioning, battery and air conditioning equipment
  - Purchased and supported the turnover refresh of over 200 computer systems several times as operating systems evolved

### ***PROJECTS HIGHLIGHTS***

- Project management examples for Electronic Health Record systems
  - Design, develop and implement an electronic health record system (EHR) for the University of Illinois at Urbana-Champaign – Project start: January, 2005; First phase implemented by September, 2006; Continued enhancing and maintaining until September, 2014. Managed a project team of eight.
  - Produce a Request for Proposal for a new Electronic Health Record System for the University of Illinois at Urbana-Champaign and purchase a system – Project start: June, 2011; Completed: August, 2013. Managed team of six.
  - Transition all data from the exiting EHR system to the newly acquired EHR for the University of Illinois at Urbana-Champaign. Project start: December, 2013; Completed: September, 2014. The goal was to transition over 400,000 patient records representing more than 1.5 million patient visits. Managed a team of four.
  - Design, develop and demonstrate a new version of an Emergency Department Electronic Record System for ORCA Medical Systems. Project Start: April, 1996; Completed: May, 1997. The goal was to introduce new controls and features to the system changing its user interface and advancing the product to a new version. Managed a team of seven.
- Project management examples for other Software Development efforts
  - A telemarketing firm wanted to upgrade their campaign management system. Managed the project that upgraded the campaign management system and deployed it within time and budget. Project started: February, 2000; Completed: January, 2001. Managed a team of four. The goal was to move from a minicomputer to a Windows and UNIX SCO environment.
  - Managed the project that created the architecture for processing telephony data, created a data warehouse to store it, the mechanism to report on the data and the automated delivery system of those reports. Project started: July, 2002; Completed: September, 2004. Managed a team of six. The goal was to deliver sales and campaign execution data by 5:00 AM every day. The old system, sent paper reports in USPS.
- Project management examples for process improvement and operational change control for Long Term Health Insurance Company and provider of in-home services, Care Wisconsin. All projects were in support of an eightfold increase in operational responsibilities:
  - Evaluated organization's reporting structures and internal processes to determine improvement opportunities. Project started: May, 2008; Completed: May, 2009. Managed a team of 24, mostly middle management and executive management. The goal was to create an organizational structure that provided support across physical boundaries and to create a responsive communication avenue that facilitated full dissemination of information.
  - After the provider network grew quickly, there was a need for more training and orientation for providers. Project managed the establishment of provider centered call center. Project started: November, 2008; Completed: April, 2009. Managed a team of ten. The goal was to establish call center software that

interfaced with the in-house ERP and to establish the parameters of a provider centric call center. The call center started operating with three people and a supervisor by May, 2009.

- Studied transportation patterns for in-home health service providers and discovered that re-assigning responsibilities would provide significant savings in travel and expenses. Project managed the re-assignment of personnel and in-home visits for the company. Project started: June, 2008; Completed: March, 2009. Managed a team of six. The goal was to optimize the personnel and time utilization without affecting quality of services. The company realized over one million dollars savings per quarter.
- Researched insurance company's mail processing to discover that regulatory responses were driving the priorities of other departments due to untimely processing. Project managed the re-engineering of mail processing and accountability for regulatory responses. Project started: July, 2008; Completed: February, 2009. Managed a team of ten. The goal was to expedite and process all mail in a timely manner. New procedures were established, mail carriers were contracted, a mail processing team was hired, all completed within time and budget.

### ***TECHNICAL HIGHLIGHTS***

- Riverside Research, ProjNet website – construction industry support of Building Information Model (BIM) and Construction-Operations Building Information Exchange (COBie), ColdFusion, JavaScript, MS-SQL Server; Food Market Maker website, PHP, CodeIgniter framework, Java, JavaScript, R, Git revision control, Mongo DB, IIS
- McKinley Health Center, Electronic Health Record – Microsoft technologies, VB.Net, SQL Server, Team Foundation, IIS, VFP and ASP.NET, Exchange Server, NAS, Power Conditioning System, SONICWALL Firewalls, Laboratory Information System (Orchard LIS), Pharmacy System (QS1), Radiology Information System (Viztek OpalRad RIS), Electronic Health Record & Practice Management System (Medicat EHR), BANNER; Project Manager, led a team of eight
- CUNA Mutual, Banking and Investments night processing – Microsoft technologies, VB.Net, Team Foundation, SharePoint, SQL Server, IIS, Reporting Services and COBOL; Member of a team of 230
- Charlton, Telemarketing, SCO UNIX, VFP, PHP, HTML, JavaScript, IIS, ASP, MySQL, Office automation and Visual SourceSafe; Project Manager, led a team of seven
- SBSA, Automated Billing Services, Microsoft technologies, ASP, SQL Server, VFP and Visual SourceSafe; Project Manager, led a team of five
- Tara Software, Consulting Projects, VB, Java, IIS, SQL Server, VFP, Visual SourceSafe, VB.Net, C#.Net and IIS; Project Manager, led different teams from seven to 26 members
- Galaxy Technologies, Time and attendance solution, Microsoft technologies, VB, VFP, ASP and Visual SourceSafe; Member of a team of four
- ORCA Medical Systems, Emergency Department automation system, Microsoft technologies, VB, VFP, SQL Server and Visual SourceSafe; Project Management and led a team of six

### ***GOVERNMENT CLEARANCE HISTORY***

2015 – 2016 Riverside Research, Champaign, IL

Project: ProjNet

1983 – 1991 McDonnell Douglas Astronautics, Huntington Beach, CA

Projects: F-15 Eagle, F-18 Hornet, AV-8B Harrier, KC-10 Extender, C-17 Globemaster, AH-64 Apache, Delta II, International Space Station, and others