Carlo S. Ciliberti, Jr., PhD, P.E.
1 Bond Place
Lumberton, NJ 08048
(609) 518-1665
e-mail: ccilibe@its.jnj.com

EDUCATION:

Ph.D, Engineering Management, Drexel University — June, 2016
Dissertation title: "Intrapreneurship Infrastructure for Industrial Companies Pursuing New Ventures"
Committee: Dr. Joseph Martin (Chair), Dr. Anthony Deese, Dr. Stephen Smith, Dr. Robert Brehm, and Dr. Sabrina Spatari
M.S., Engineering Management, Drexel University — May, 2010
M.S., Electrical Engineering, Widener University — May, 1993
B.S., Biomedical Engineering, Temple University — May, 1986

PROFESSIONAL LICENSES AND CERTIFICATIONS:

Professional Engineer, Pennsylvania and New York
Trained Commercial Green Belt

SECURITY CLEARANCES:

Secret

PATENT:

No.: US 10,000,339 B2 Gravity-Fed Housing for Gasification System — June, 2018

TEACHING & COURSE DEVELOPMENT

Adjunct Professor — 2017 – Present
Engineering Management, Systems Engineering, Program Management, Drexel University

EGMT T680: Intrapreneurship
Developed and taught this 3-credit asynchronous on-line graduate course which describes a process that can be used as a guide for intrapreneurs and corporations who wish to develop an idea from conception to corporate senior leadership approval such that a new venture can be established within the corporation.

SYSE 610: Naval Engineering for the 21st Century
Developed and taught this 3-credit asynchronous on-line graduate course which introduces the theory and design of engineering machinery and equipment aboard US Navy ships. Primary emphasis is placed on helping the student acquire and overall view of the Fleet and an understanding of the Hull, Mechanical and Electrical (HM&E) systems encountered onboard navy ships. An emphasis is placed on the propulsion and auxiliary systems for conventional and nuclear propulsion, gas turbine power plants and internal combustion engines.

SYSE 533: Systems Integration and Test
Developed and taught lectures for this 3-credit asynchronous on-line graduate course which addresses the processes which are critical to most large engineering efforts and optimizing them for effectiveness and financial success. The process covers the complete engineering system evolution from needs and requirements generation to production and construction and operation.

EGMT 581: Human Relations and Organizational Behavior
Developed and taught this 3-credit core classroom graduate course which covers morale and discipline in management situations. It includes case studies stressing the prevention of and solutions to employee problems by means of appropriate policies, techniques, practices, and procedures. Group dynamics from the psychological and sociological perspectives of varying situations, especially industrial will also be examined.

EGMT 501: Engineering Management I
Taught this 3-credit core asynchronous on-line graduate course which covers the history and evolution of management theory as well as planning, organizational design, management styles, motivation/rewards/punishments and problem solving. Emphasis is on developing a systemic, holistic approach.

EGMT 531: Engineering Economic Evaluation & Analysis
Taught this 3-credit core classroom graduate course which provides a review of economic analysis with emphasis on those phases of major interest to engineering administration. Covers the calculation of economic equivalence, inflation and the purchasing power of money, decision-making among alternatives, evaluation of public activities, and estimation of costs.

EGMT 615: Product Conceptualization and Development
Taught this 3-credit core asynchronous on-line graduate course which covers two broad themes: (1) innovation processes and (2) specific tools to use in the process. The course will acquaint students with the nature and the fundamental concepts of innovation processes, develop an understanding of which innovation processes are best applied to specific competitive environments and basic skill in the use of specific engineering and management tools useful in the development of innovative products, services and business models and the integration of the engineering/management.

EGMT 616: Value Creation through New Product Development
Taught this 3-credit core asynchronous on-line graduate course which analyzes the issues and concepts involved in the management of research and development and its functional relationship to other elements of the corporate structure. including the functional characteristics of the product line, company growth by technological innovation, application of systems engineering concepts to the corporate organization, and changing concepts in management structures to accommodate advances in science and technology.

Adjunct Professor 2017 – Present
Construction Management, Rowan University

CON-220: Understanding Construction Drawings
Developed and taught this 3-credit course covering the fundamentals of interpreting construction documents including the examination of a variety of construction, engineering, and design drawings, details, graphic standards, sections, and quantities for competitive bidding of projects.

CON-103: Statics and Strength of Materials
Developed and taught this 3-credit course covering the fundamental principles of structural design covering analysis of structures to determine internal and external forces; the design of members and connections based on allowable tension, compression, bending, and shearing stress; analysis of trusses; and the computerized study of forces as represented by vectors.

EGR-201: Engineering Statics
Developed and taught this 3-credit course focusing on the principles of engineering mechanics including statics of particles and rigid bodies in two and three dimensions. This course covers mathematical analysis as applied to the study of trusses, frames, and machines, frictional forces; distributive forces; center of gravity and moment of inertia; as well as methods of virtual work. The free-body diagram approach and vector analysis methods are used throughout this course.

Adjunct Professor 2019 – Present
Engineering Management, University of Nebraska - Lincoln

EMGT 891: Human Relations in Engineering and Sciences
Developed and taught this 3-credit asynchronous on-line graduate course which provides a framework for the student to become proficient in recognizing, understanding, and predicting morale and discipline when managing in the technology industry. It includes case studies related to engineering, technology, and sciences, emphasizing the prevention of and solutions to problems unique to technical employees by means of appropriate policies, techniques, practices, and procedures. Group dynamics from the psychological and sociological perspectives of varying corporate situations related to engineering and science will also be examined.

EMGT 891: Intrapreneurship in Engineering and Science
Developed this 3-credit asynchronous on-line graduate course which describes a process for intrapreneurs and corporations who wish to develop an idea from conception to corporate senior leadership approval to establish a new venture within the corporation. This process includes conceptualization, case study analysis, feasibility

studies, business models, risk analysis, and stage-gating with the goal of presenting only corporate viable ideas to senior management.

SUMMARY OF INDUSTRY EXPERIENCE:

Project Management, Project Engineering, Program Management, Department Management, Financial Management, Engineering Planning, Control Systems Engineering and Design, Electrical Engineering and Design, Estimating, Quality Assurance, Procurement, Construction Management, Validation and Engineering Start-up experiences. Proficient in AutoCAD and Microsoft Office with strong coordination, customer interface and department management skills.

SIGNIFICANT EXPERIENCE:

JOHNSON & JOHNSON CONSUMER HEALTHCARE (2016 – PRESENT)

SR. MANAGER ENGINEERING & AUTOMATION

Responsibilities include technical leadership for the specification, development, implementation, and assurance of a qualified state for manufacturing equipment in the Fort Washington, PA site. Align the manufacturing equipment requirements with the site's mission, ensuring efficient and effective equipment operation meeting cost, customer service, and quality/compliance goals. Responsible for the site capital plan, manufacturing equipment asset management, and automation strategy. Manage capital appropriation and spend management. Life cycle management of manufacturing equipment including reliability and global strategy. Department management of engineers, designers and contractors including recruiting, estimating and scheduling, quality assurance, cGMP/FDA compliance, personnel management, commissioning & qualification, validation, and construction support.

LOCKHEED MARTIN MARITIME SYSTEMS & TRAINING (2004 – 2016)

PROJECT ENGINEER RENEWABLE ENERGY PROGRAMS, SUSTAINABLE TECHNOLOGIES

General responsibilities included engineering and detailed design deliverables from conceptual engineering through construction support and start-up for Renewable Energy Projects including waste-to-energy, biomass, anaerobic digestion, ocean technologies and solar.

SPACE FENCE FACILITIES LEAD ENGINEER

Responsibilities included project engineering for Space Fence Facilities including two sensor sites and an operations center. Each sensor site consists of radar, operations, liquid cooling, power generation and distribution, support systems and monitoring control systems encompassing civil, structural, architectural, mechanical, electrical and special equipment engineering and design. Responsibilities also included the oversight of A&E (AMEC) and Specialty Engineering (GDST) Partners.

PROGRAM MANAGER

General responsibilities included program management for the Aegis Development Program Office responsible for the Department of Defense Platform Systems Integration and Computer Program Maintenance.

ADVANCED TECHNICAL LEADERSHIP PROGRAM (ATLP)

Corporate Leadership program formulated for technical and professional development of individuals through rotational assignments, mentoring, networking and training. Rotational assignments included Software Project Engineering, Cruiser Modernization Program Management, Commercial-Off-The-Shelf (COTS) Life Cycle Project Engineering, First Level Management, and Homeland Security Lead Systems Engineering.

CDI ENGINEERING GROUP, INC. (2001 – 2004)

INSTRUMENTATION AND CONTROL SYSTEMS DEPARTMENT MANAGER

General responsibilities included department management, supervision of engineers and designers, recruiting, estimating and scheduling, quality assurance, proposals and feasibility studies through start-up and validation. Clients included Bristol-Myers Squibb, Massachusetts Biologic Laboratories, GlaxoSmithKline, BioPure, Human Genome, Ortho Biologics, Qiagen, Aviron and Wyeth-Ayerst.

GANNETT FLEMING (2000 – 2001)

PROJECT MANAGER

General responsibilities included business development of the new Life Sciences and Chemicals Business Unit. Specific responsibilities included client interfaces, supervision of engineers and designers, quality assurance, budgets, staffing, estimating and scheduling for the following new Hoffman-LaRoche, Inc. projects: *Utility Metering and Monitoring Phase II, Building 73's Vitamin E Hydrogenation Process Expansion, and Environmental Control Facility Upgrades.*

FLUOR DANIEL (1990 – 2000)

PROJECT ENGINEER

Canovanas Tablet Facility, IPR Pharmaceuticals, Canovanas, Puerto Rico (1998 – 2000)
Project Engineer responsible for a new $60mm facility manufacturing Casodex via a wet granulation process, and Zomig via dry compression production. Responsibilities included coordination between Fluor Daniel offices in Marlton, NJ. San Juan, PR and vendors worldwide.

LEAD CONTROL SYSTEMS ENGINEER

General responsibilities included all control system engineering and detailed design deliverables, estimating and scheduling, supervision, developing and teaching progressive training courses, cGMP and quality assurance, purchasing, acceptance testing, validation support, engineering start-up and construction support.
Specific project responsibilities:

Norman II Expansion, Yamanouchi/Shaklee Corporation, Norman Oklahoma (1998 – 1999)
A 60K square foot solid dosage pharmaceutical manufacturing facility

API Manufacturing Facility, Centeon, Kankekee, Illinois (1997 – 1998)
Grass Roots facility to produce Alpha Protein Inhibitor, an iron lung disease medication.

Xenical II, Roche Pharmaceuticals, Nutley, NJ (1997)
Expansion facility for the granulation, extrusion, spheronization, drying, blending and encapsulation of Xenical. This design increased Xenical production to 1.26 billion capsules per year.

Vitamin C Expansion, Roche Vitamins & Fine Chemicals, Belvidere, NJ (1996 – 1998)
Expansion project designed and constructed during plant production without interruptions. Activities included upgrading existing tanner drum style control systems to an existing Honeywell TDC 3000.

Groundwater Remediation, Occidental Chemical Corporation, Genk, Belgium (1995 – 1996)
Waste Water Collection and Treatment System Upgrade Project.

Benzene Railcar Loading, Star Enterprise, Delaware City, DE (1995)
Project to load/unload up to four 23,000-gallon railcars simultaneously per day.

Pancreatin Expansion, Scientific Protein Laboratories, Waunakee, WI (1991 – 1992)
Multiple PLC grass roots bulk pharmaceutical batch process.

Multiple Case Packing Upgrade, Haagen Dazs, Woodbridge, NJ/Tulare, CA (1991 – 1992)
Multilingual ink jet spray printing and bar coding of multiple case packing production lines.

Station H, Potomac Electric Power Company, Washington, DC (1990 – 1991)
DCS selection and design for four 163 MW combustion turbine generator project.

8-C Hydrotreater, Sun Refining and Marketing Company, Marcus Hook, PA (1990)
Developed as-built P&IDs and DCS sizing programs for the 8-C hydrotreater, crude and vacuum units preparatory to an instrument modernization project.

Overhead Waste Water Facility, Rohm & Haas Delaware Valley, Inc., Bristol, PA (1990)
Developed P&IDs, prepared instrument specifications and coordinated a computerized instrumentation database.

NAVAL SHIP SYSTEMS ENGINEERING STATION (1987 – 1990)

ELECTRICAL ENGINEER

Developed the curriculum and taught several nation-wide courses on electrical and mechanical instrumentation. Prepared instrumentation specifications and designs. Supervised military specification testing and evaluation of instrument systems and devices. Conducted infrared thermal imaging surveys of

electrical systems onboard nuclear aircraft carriers. Project engineer for moisture monitoring of compressed dry air systems for aircraft launch and recovery systems onboard nuclear and conventional aircraft carriers. Provided technical consultation and engineering assistance to the U.S. Naval Fleet and other facilities for the Department of Defense. Developed and supervised control systems engineering design modifications and engineering start-up.

TEMPLE UNIVERSITY (1986)

ELECTRONICS LABORATORY INSTRUCTOR

Prepared lessons constructed and explained required circuitry.

AFFILIATIONS:

Institute of Electrical and Electronics Engineers
American Society of Engineering Management
The International Society of Automation

PUBLICATIONS:

2019 – "Creating Innovation within an Organization", American Society for Engineering Management 2019 International Annual Conference Presentation.

2016 – "Intrapreneurial Process for Industrial Corporations Forming New Ventures", Proceedings of the American Society for Engineering Management 2016 International Annual Conference

2016 – "A Life Cycle Perspective on Land Use and Project Economics of Electricity from Wind and Anaerobic Digestion", Energy Policy Volume 89, February 2016, Pages 52-63

2015 – "Business Model to Supply Rural Electric Cooperatives with an Integrated Renewable Energy", Proceedings of the American Society for Engineering Management 2015 International Annual Conference

2014 – "Integrated System to Supply Power and Fuel to Rural Districts using Renewable Resources", Proceedings of the American Society for Engineering Management 2014 International Annual Conference

2006 – "The Impact of Open Architecture on US Navy's Aegis Requirements Engineering", Maritime Systems and Technology for Defence, Security and Safety