

Workshops

June 17, 2:00 – 4:00 pm

Lean Six Sigma Workshop (Yellow Belt Level)

Speakers:

Dr. Ahad Ali, Lawrence Technological University, Southfield, Michigan, USA
Dr. Ahmed Mohammed, IT Manager, Orlando Health

Certificate: Yellow Belt Six-Sigma after passing the Examination

This comprehensive workshop is designed to provide participants with a foundational understanding of Lean Six Sigma methodologies, focusing on the principles and tools needed to drive process improvement and efficiency. Led by expert speakers Dr. Ahad Ali from Lawrence Technological University and Dr. Ahmed Mohammed, IT Manager at Orlando Health, this workshop will cover essential Lean Six Sigma concepts such as DMAIC (Define, Measure, Analyze, Improve, Control), process mapping, and root cause analysis. Through interactive sessions and case studies, participants will gain practical skills to identify and eliminate waste, reduce variability, and improve overall process performance in various industries.

At the conclusion of the workshop, attendees will take a comprehensive examination and, upon passing, receive their Yellow Belt Six Sigma certification, marking their proficiency in applying these vital process improvement techniques.

June 17, 4:00 – 6:00 pm

AI and Machine Learning Workshop

STEPPING INTO AI & MACHINE LEARNING – Workshop
 INSTRUCTOR-LED WORKSHOP WITH HANDS-ON TRAINING



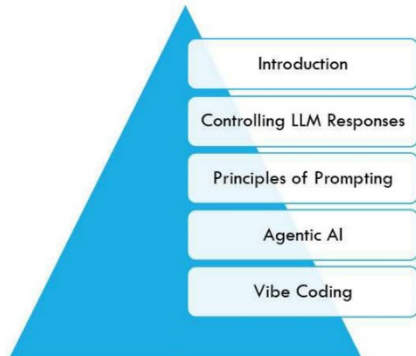
Mohammad Islam
 Associate Director
 Optum – United Healthcare Inc.
 New Jersey, United States of America

Mohammad Islam serves as an Associate Director at the United Health Group USA. He specializes in application and web-based software development, as well as machine learning and deep learning models and their practical applications. Mohammad holds a U.S. patent for a wireless GPS mapping device and has contributed articles to esteemed publications such as ASCE and CSCE. With a keen strategic mindset and a robust IT and Engineering background, Mohammad brings extensive experience in team management, technical leadership, and coaching. He excels in connecting individuals and teams with the right tools and products to optimize effectiveness and efficiency for their mission. With nearly 20 years of experience in IT Program and Portfolio management, spanning agile, SDLC, Kanban, and Scrum methodologies, Mohammad believes that leveraging AI wisely can lead humanity to unprecedented heights. Before joining United Health in 2018, Mohammad held positions at Bank of America, Merrill Lynch, Walmart, and the United Nations.

Certificate: Provided after examination/Homework

AI Prompt Engineering & Vibe Coding: A Practical Overview

Step into the future of AI-powered productivity with this hands-on, industry-focused workshop on **Prompt Engineering and Vibe Coding**, led by seasoned AI practitioner **Mohammad (mo) Islam**.



In this session, you'll gain practical experience using cutting-edge prompt engineering tools and techniques to unlock the true potential of **Large Language Models (LLMs)** like ChatGPT and Claude. We begin with an introduction to the fundamentals of **prompt engineering**—the art and science of crafting inputs that generate precise, relevant, and safe AI outputs. You'll then explore how to **control and guide LLM responses**, ensuring alignment with your goals across various domains. Core **prompting principles** such as clarity, specificity, role prompting, and iterative refinement will be covered in detail.

The session also introduces **Agentic AI**—where LLMs autonomously execute tasks, make decisions, and integrate with tools – offering a glimpse into the next frontier of AI applications.

Finally, we explore **Vibe Coding**, a modern, intuitive approach to designing and aligning AI systems with human intent and emotional intelligence. Vibe Coding focuses not just on functionality, but on **capturing the “feel” or “tone” of interactions**, making human-AI

collaboration more natural, expressive, and effective.

Join us and learn to master AI—before AI masters you.

June 18, 2:00 – 4:00 pm

Agent-Based Simulation (using AnyLogic) – Basic

Speakers:

Dr. John Pastrana
Dr. Mario Marin, Simulation Interoperability Laboratory

Certificate: UCF Simulation Interoperability Laboratory

This introductory workshop will guide participants through the foundational concepts of Agent-Based Simulation (ABS) using the AnyLogic platform. This session will focus on the basics of ABS, exploring how to model and simulate complex systems by representing individual agents and their interactions. Expert speakers Dr. John Pastrana and Dr. Mario Marin from the Simulation Interoperability Laboratory will lead the session. Participants will learn key techniques for designing, building, and analyzing agent-based models with real-world applications spanning industries such as healthcare, manufacturing, logistics, and more. By the end of the workshop, attendees will have a practical understanding of how to use AnyLogic to create dynamic, agent-driven simulations. After passing an assessment/modeling, participants will be awarded a certificate from the UCF Simulation Interoperability Laboratory, validating their proficiency in basic agent-based simulation.

June 18, 4:00 – 6:00 pm

Empowering Leadership Through Emotional Intelligence



Dr. Tony Prensa, PhD, MBA, PMP, CB-PMO, CCP, ITIL, 6σ
Chief Executive Officer & Founder
TP Global Business Consulting, LLC
Orlando, Florida, USA

Dr. Prensa is a highly accomplished executive and leader of project management office (PMO), project/portfolio management, information systems and technologies, combines a Doctorate in Organizational Leadership with a major in Information Systems and Technologies, Certified PMO Professional, Authorized PMO Instructor, Certified Project Management (PMP), and ITILV certification with extensive experience managing and overseeing large information systems projects/programs, strategic planning, and seamless IT implementations. Adept at reengineering business processes, change management and IT infrastructure with business visions to drive profitability, efficiency, and growth within the organization. Proficient at ensuring all processes comply with regulatory requirements and IT governance practices. Excellent communicator with strong influencing and problem-solving skills. Strong leadership skills and demonstrated ability to lead team members and external business contacts including stakeholders such as consultants, partners and vendors. Demonstrated track record of delivery of multiple technical and business projects on time and within budget. Experience in full-lifecycle project management methodologies and tools. Dr. Prensa has been involved with the Project Management Institute for more than twenty-five years. He served a vice president of PMI Puerto Rico Chapter from 1998-2000. He also volunteered in many activities to promote project management and participated of writing PMP exam questions workshop in Dallas, Texas in 2002. Dr. Prensa has helped hundreds of project management professionals to get prepared for the PMP exam. Dr. Prensa has taught project management for several universities in the country, including Virginia Technical University, Grand Canyon University, Colorado Technical University, University of Phoenix and currently teaching for Walden University. With more than 25 years of teaching experience in various formats, face-to-face and virtual. Dr. Prensa has developed techniques to connect with learners and students in the most efficient way. Dr. Prensa has extraordinary people skills, he always puts people first.

Workshop Summary

In today's fast-paced and complex world, emotional intelligence (EI) has become crucial for effective leadership. This engaging workshop, led by leadership expert Tony Prensa, will delve into the principles of Emotional Intelligence and how it can be leveraged to enhance leadership capabilities. Participants will explore key EI competencies, such as self-awareness, empathy, and emotional regulation, essential for building strong teams, improving communication, and making thoughtful decisions. Through interactive discussions, real-life scenarios, and practical exercises, attendees will gain insights into managing emotions under pressure, fostering positive work environments, and inspiring others to perform at their best. After the workshop, participants will take a final assessment to evaluate their understanding of the concepts. They will be awarded a Certificate in Emotional Intelligence for Leadership upon successful completion, recognizing their enhanced leadership skills through EI mastery.

June 18, 4:00 – 6:00 pm

Workshop on Smart and Microgrid

Sustainable Smart Grid, Technology option to resolve operations and control challenges of Electrical Power System



Dr Tariq MASOOD
Department of Engineering
Frostburg State University, MD, USA

Abstract

Electricity is fundamental to world civilization; it conveys energy and information, delivers power to the user with no emission at the point of use, and provides an increasing array of innovative products and services. On the other hand, the electric power system, by all measures, is a very complex "machine" that consists of various significant sources of power generation, vast transmission networks, and local distribution systems. Among the attributes of this complexity are inadequate power flow control, inadequate reactive power management, power angle and voltage instabilities, inadequate planners/operators training, inefficient use of collected data, etc.

It is, therefore, imperative to constantly look at the development of new "smart" technologies to be implemented on the grid to improve grid performance and provide reliable and quality power delivery. The complex infrastructure of the transmission grid requires innovative and intelligent solutions. Under the "Smart Grid" umbrella, there will be several evolving developments. The following are several key characteristics that might qualify a transmission grid to be "smart":

Power System Sustainability Questions:

1. Self-healing: grid that rapidly detects, analyzes, and restores following
2. Empowers and incorporates consumer equipment and behavior in grid design and
3. Tolerant of attack, the grid mitigates and is resilient to physical and cyber-
4. Provides the power quality needed by the "digital society," e., a grid that delivers power quality consistent with consumers' and industry's needs.
5. Accommodates a wide variety of supply and The grid accommodates a variety of resources (including demand response, combined heat and power, wind, photovoltaic, and end-use efficiency).
6. It is fully enabling and is supported by competitive

Conclusion

Enhancing power Grid performance by providing intelligent solutions for Power system complexity, power flow management, reactive power management chronic issues, and power system stability (angle and voltage instabilities). This research also improved transmission capacity and reliability limits with a degree of precision.

Dr. Tariq Masood is a distinguished professional with a wealth of academic qualifications in electrical power system engineering. His credentials include an M.Eng, M.Phil, and a Ph.D. (Smartgrid/Microgrid Renewable Energy Distributed Power Generation) from the esteemed University of Bath, Bath, U.K. He also obtained Scientific Teaching Fellowship- 2022, Accredited/Sponsored by the NSF-National Science Foundation and hhmi–Howard Hughes Medical Institute in the United States. These qualifications, coupled with his status as a chartered engineer registered with the Royal Engineering Council in the U.K., a senior member of IEEE-USA, a senior member of AIChE-USA, and a member of IET-UK, reassure his extensive expertise. His professional affiliations also include being a certified CET International USA member and a registered ASCET (American Society of Certified Engineers and Technicians) USA member.

Dr. Masood is an Assistant Professor (Tenured-Track) at Frostburg State University in Frostburg, Maryland. His leadership roles at the university, including serving as a Senator of the *Faculty Senate*, a *Member of the Academic Affairs Committee*, and a *Member of the Academic Standard Committee*, demonstrate his commitment to fostering academic excellence. Dr. Masood is a versatile, collaborative, accomplished, and knowledgeable professional. His successful track record as a Professional Engineer/Academician. His collaborative approach makes everyone feel included and part of a team. He has also contributed as a Visiting & Adjunct Professor and Invited speaker at OIT, UTT, Texas A&M Qatar, UTA, TTU, UND, U.B., and UDC in the United States of America. He is also certified by the Lean Six Sigma Green Belt. In the past, he also served as a Vice President of Technical Operations at Energy and Utilities Service in New Jersey, USA.

He joined Qatar Petroleum in 1997 as a Technical Coordinator, Operations/Advisor. He is a member of the BPTC (Best Practices Technical Committee) and other production integrity committees under the patronage of H.E. Dr. Mohd Saleh Al-Sada, Minister of Energy and Industry Qatar. His contributions to the field are evident in his more than 68 technical research papers published in IEEE Conference, Journal, papers and books. He has received several awards for his outstanding performance and dedication to improving Qatar Petroleum's production operations and control, including two Mubarak awards from the H.E Minister of Energy and Industry, and three Al-Hasba Awards from the Vice President of Operations. He was the secretary for the GCC oil-producing companies (QP-Qatar, PDO-Oman ARAMCO-Saudi Arabia, KOC-Kuwait, TATWEER-Bahrain, and ADNOC-United Arab Emirates) Production and Maintenance Technical Committee in 2008 and 2011. He is also serving as an Associate Editor of IEEE Access (Impact Factor 3.44).

2:00 – 6:00 pm, June 19, 2025

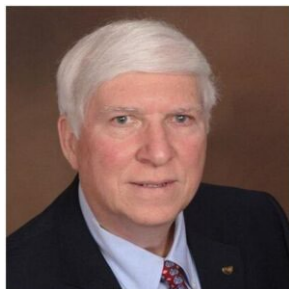
TOYOTA KATA Workshop

The Secret Sauce for Toyota Production System

Kata in the Classroom (KiC) workshops are based on Mike Rother's "Toyota Kata" methodology and that Scientific Thinking is a life skill. It's the basis for creativity and successfully pursuing seemingly unattainable goals. KiC demonstrates a teachable skill that anyone can learn — by combining a simple scientific striving pattern with practice routines called *Kata* – to help you learn meta-cognitive strategies. Many view Toyota Kata as the "secret sauce" of the Toyota Production System (TPS). Mike Rother wrote "Toyota Kata" to explain the secrets of TPS improvement sustaining methodology. How do we prepare for the future when we don't know what the future will bring? We can't predict how to get from A to B... we're stumped and overwhelmed, there are time constraints and economic pressure. Dave Harry will share the "secret sauce" with IEOM and Dubai Area University students through an intense hands-on "Kata in the Classroom" workshop. Be prepared to move fast!

Prizes: Each round table will be used for a team. Local university can form teams to compete. Dave is very kind to provide some prizes with gift cards.

ABOUT THE PRESENTER – DAVE HARRY, a.k.a. "The Process Whisperer®"



Dave is a retired U.S. Naval aviator and currently CEO of Process Whisperer® Consultants LLC. He teaches LSS classes for TMG Inc of Newport News, VA. Prior to TMG, Dave was a Six Sigma and Productivity Consultant for the University of TN Center for Industrial Services. Dave is a "Kata Geek" and also an ASQ certified Six Sigma Black Belt. He is active in ASQ Sections and the ASQ Lean Enterprise Division Communications. In addition to ASQ, he also holds Black Belt Certification through Rolls-Royce and Northrop Grumman. He is a seasoned ASQ International Team Excellence Awards (ITEA) Judge. Dave is also currently on the Lean Division Board with the Institute of Industrial and Systems Engineers (IISE). Dave is on the Conference Advisory Committee for ASQs 2019 L&SS Conference in Phoenix as well as the Conference Committee for the IISE Engineering 2018 Lean Six Sigma Conference in Atlanta. A PMI certified PMP®, Dave also holds Lean Bronze Certification (LBC) through the SME/ASQ/AME/Shingo Institute Alliance and he holds three Master's Degrees in management related fields. In addition to ASQ, PMI and IISE, Dave is also a member of the Society of Manufacturing Engineers (SME), the Association of Manufacturing Excellence (AME) and the American Production and Inventory Control Society

(APICS). Dave lives in Greeneville TN.

Plenary Speakers

Thursday, June 19, 8:00 – 10:00 am Session



Obaidul (Gani) Gani, P.E.
Founder & CEO, CIBEx, LLC.
Orlando, Florida, USA

Ex-Director of Operational Excellence, L3Harris Technologies, USA
Ex-Director of Business Transformation, Philips HealthCare, USA
Ex- Sr. Manager, Continuous Improvement, Abbott Cardiovascular Division, USA

Presentation Title: KATA for Business Transformation in the Healthcare Industry

Obaidul Gani is the Founder & CEO of CIBEx, LLC. Business Transformation & Multidisciplinary Management Consulting Firm serving companies of all sizes & nationwide in the US. He possesses approximately 25 Years of industry experience, started in the Automotive industry in the Detroit, Michigan area by working at Ford/ Visteon, DaimlerChrysler & Linamar Corporation (2000-2006). He began deploying Lean-Operational Excellence in the Healthcare industry by starting his journey at Abbott Cardiovascular in Minneapolis, Minnesota, back in 2006. Since then, he worked for 16 Years in multiple FDA Regulated BioMed & BioTech Companies in the US in various capacities of Business Transformation & Operations Leadership roles, like at Abbott, Philips HealthCare, ThermoFisher Scientific, Evergen, & Lacerta Therapeutics. Most recently, he worked in the Aerospace & Defense Industry for 4 years as Director of Operational Excellence at L3Harris Technologies at Space Coast in Melbourne (Orlando), Florida, USA.

Gani has vast experience in deploying Engineering, Operations & Supply Chain excellence in a wide range of industries both within domestic & some international sites in Canada, the UK, Italy, Brazil, Costa Rica, also in Puerto Rico (US territory). He is passionate about implementing structured Business Transformation Models to produce business results & to develop people. He practices the right balance of strategy & tactics to drive sustainable cultural & business transformation by engaging & developing people systems by training, coaching, & mentoring to solve complex business problems. He acquired expertise in Honeywell & Danaher Business System & an experienced Leader & Facilitator of deploying those equivalent Models & Business Operating Systems in the above-mentioned companies he worked for. He developed multiple sets of Lean-Operational Excellence leadership Training & Boot-Camp packages and Trained-mentored & certified 1,200+ employees in the past 20 years. He is a Lean Kaizen Sensei- developed multiple Kaizen leaders globally. Architect multiple Improvement Models based on Hoshin/ Strategy Deployment, Daily Management, Problem Solving & Kaizen executions, and implemented them with significant success through Employee Engagement & Lean Leadership development while improving business performance & generating quantifiable (\$) Value Stream & Workflow improvements.

Gani holds a BS in Mechanical Engineering (1998), MS in Industrial Engineering from Wayne State University (2001) & pursued EMMP (Engineering Management Master's Program) also at Wayne State specializing in Lean- Operational Excellence (2004), received his Executive Education on Lean Business System from University of Wisconsin- Madison. He is an ASQ Certified Six-Sigma Black Belt, Philips University Certified Lean Expert/ Master, & a Licensed Professional Engineer from PEO. Currently, he is a Fellow at Industry-X at ISE at Wayne State University, Programs Chair at ASQ- Section 1509 (Orlando, FL), Secretary General of BUET Alumni Association in NA, & a Lifetime Fellow of the Institute of Engineers Bangladesh (IEB). He is a guest speaker at UCF-Business School (in Orlando) & Northeastern University- College of Engineering (in Boston). He is also an active member of the Orlando-Central Florida Tech startup community & the growth ecosystem.

Thursday, June 19, 4:00 – 6:00 am Session



Professor Donald M. Reimer
Chief Operating Officer, IEOM Society International, USA
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA

Presentation Title: Entrepreneurship and Innovation

Donald M. Reimer is a chief operating officer at the IEOM Society International, USA. He is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in the College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.