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## EDUCATION

BSc, Electronics Engineering /  
Industrial Automation  
*Mapua Institute of Technology,  
Philippines*

The Manchester Leadership  
Development Programme / Alliance  
Manchester Business School,  
*United Kingdom*

## ORGANISATION

Project Management Institute, PMI  
/ Affiliate Member  
International Information System  
Security Certification Consortium,  
ISC2  
/ Affiliate Member

## INDUSTRY KNOWLEDGE

Manufacturing Processes



Heavy and Highly Regulated



## MANAGEMENT SKILLS

Digital Transformation



Cybersecurity Management System



Team, Project, and Stakeholder  
Management



Business and Financial  
Management



Consulting and Technical Sales



Leadership and Coaching



Business and Growth Strategy



Organization and Prioritization



Entrepreneurship and Ownership



Business Process and Tools



Presentation



# KERTVIN TUGADO

PMI-ACP, CISSP, TÜV CySec Specialist, TÜV FSEng-SFSP

## ENGINEERING LEAD AND GLOBAL LINE MANAGER

### PERSONAL INFORMATION

An agile and thought leader with 15+ years intensive years of solid technical expertise, business, stakeholder management and strong business ethics. Strong background on data analytics, engineering and project management, project delivery, consultancy, digitalization, innovation, and software development.

Delivering successful multi million pounds projects and leading outstanding governance, leadership, and management of a diverse team of contractors, consultants project and system engineers in Europe and Asia Pacific region for Siemens Digital Industries.

Passionate about good leadership and takes pride in building a creative, team spirited, blameless and innovative environment.

### PROFESSIONAL EXPERIENCE

#### ENGINEERING LEAD AND GLOBAL LINE MANAGER

*Siemens AG, 2019 – Present*

#### FUNCTIONAL SAFETY MANAGER in PROJECT

*Siemens AG, 2020 – Present*

#### PRODUCT & SOLUTION SECURITY OFFICER

*Siemens AG, 2020 – Present*

- Preparation and review of engineering project proposals and technical compliance in focus overall solutions engineering delivery.
- Negotiated and perform project and risk controls to the assigned projects, and managed resources, schedule, workload, and key performance.
- Lead the consultation and workshops in focus with cybersecurity standards, compliance, and frameworks (IEC62443, IEC62351, NIST, NIS, NERC-CIP, IT/OT Convergence) focusing on the energy industry.
- Spearhead and own the functional safety engineering management, cybersecurity, and lifecycle activities on critical infrastructure projects specifically on energy, chemicals, and power generation industry.
- Contribute to overall business by managing profit and loss P&L's and increase in margin, change order management and value-added selling strategy for projects and sales.
- Administer in rolling out of business goals and targets to projects, engineering, and various stakeholders.
- Lead the improvement of engineering processes, tools, application, and standards by use of digitalisation tools and up to date technologies.
- Lead, coach and manage a team of engineers locally and across global engineering centres regions.
- Ensures that knowledge transfer is always carried out across the team and knowledge on the new technologies are always up to date.
- Partake in selection, and development of global engineering centres.

## TECHNICAL SKILLS

PM @ Siemens Project Management



Siemens Process Control System  
PCS7 and Process Modelling using  
SIMIT Platform



Siemens Opcenter Execution  
Pharma MES



Siemens Plant Engineering  
Software COMOS



Siemens PLM and Manufacturing  
Operations Software



Mendix Low Code Application  
Development Platform



Cyber Security and Industrial Security



Functional and Process Safety



Python, VB6, C++ and Visual Studio



SQL and Oracle Database



Cloud and Edge Computing



Software Development Life Cycle



Agile, DevOps and Scrum  
Framework



## CERTIFICATIONS

Siemens People and Business  
Management / Siemens AG

Siemens Leading the Digital  
Business Transformation / Siemens  
AG

Functional Safety Engineer and  
Professional / TÜV SÜD

Cybersecurity Specialist on Security  
Risk Assessment / TÜV Rheinland

Siemens Process Control System  
PCS7 / Siemens AG

Siemens Opcenter Execution  
Pharma / Siemens AG

PMI-ACP / Project Management  
Institute

## BUSINESS AND TECHNICAL MANAGER

*Plant.IT Process Automation Solutions, Founder 2017 - 2019*

- Review and budget allocations, financial statements, project expense and managing cost.
- Analyze, approve, and recommend approval of all change requests, orders, invoices, and payment applications.
- Provide leadership, coaching and guidance to the team of engineers, contractors, and staff members.
- Perform administrative functions such as reviewing and writing reports, approving expenditures, enforcing rules, and making decisions about the purchase of materials or services.
- Spearhead the hiring and selection process.
- Develop and bridge internal and external stakeholders.
- Analyze current trends and technologies and market demands, plan and assess the feasibility of projects.

## ENGINEERING MANAGER

*CMR Group, Co-Founder 2012 - 2017*

- Provide leadership, coaching and guidance to the team of engineers, contractors, and staff.
- Ensures that project is within budget and able to target the project timeline.
- Discuss, review and layout project specifications, timelines, and schedules.
- Review, approve and modify designs and Develop cost estimates and proposals.
- Analyze key performance indicator, continuous improvement and development plan for engineers and staff.
- Analyze market demands and develop business growth strategy for sales and technical team.

## TECHNOLOGY LEAD AND LEAD TECHNICAL SUPPORT ENGINEER

*Emerson, 2010 - 2012*

- Improving the capabilities and abilities of the technical support team in supporting any of the following applications within Emerson's portfolio of products and solutions:
- Providing technical support, consultation, and on-site/remote diagnostics on Emerson Automation Solutions products/systems, including DeltaV DCS, DeltaV SIS (Safety Instrumented Systems), AMS Device Manager, Wireless Solution, and PlantWeb installations for systems in Asia Pacific, Europe, Middle East, Africa, North America, and Latin America end-user customers and engineering organizations. This involves fixing, problem analysis, and solutions generation to hardware, software, installation, configuration, integration, and application issues and inquiries. Keeping ownership of all received customer problems, providing timely updates, and setting the appropriate critical issue priority.
- Optimally working to identify workarounds, reduce product problem resolution time, and support efforts to develop training and fixing resources.
- Collaborating with Local Business Partners and Field Service Organizations worldwide, Technology, Marketing, and Manufacturing to resolve product problems and plot product design directions at a local and global level

## INDUSTRIES

Pharmaceuticals and Life Sciences



Petrochemicals and Chemicals



Cement & Mining



Food and Beverage



Oil and Gas



Automotive and Machinery



Electronics and Semiconductor



Aerospace



Electric Power Generation



## ENGINEERING SKILLS

Good Automated Manufacturing Practice



Validation and Qualification



System Design and Development



Industrial Communication and Protocols



3<sup>rd</sup> Party Distributed Control System



International Framework and Regulatory Standard



System Integration



Blueprints and Architecture Design and Concepts



Digitalization



Solutions and Software Development



Lean Start-up and Six Sigma



Discrete, Process, Continuous and Batch



## RECOGNITION AND ACHIEVEMENTS

- Successfully manage, lead, and deliver numerous complex full lifecycle projects, approximately ~£25M in total revenue
- Champion for project delivery, execution and controls contributing to improved overall business targets and margin by ~20%
- Champion for people leadership, global collaboration, engineering, technological and stakeholder management.
- Champion as a functional safety manager and cybersecurity specialist in projects spearheading critical infrastructure specifically on energy, chemicals, and power generation.
- Effectively increase project engineering execution and delivery resulting in increase in profit margin by ~30%
- Champion for digitalization and innovation technological development for the engineering delivery and business
- Effectively establish value-added delivery and sales to projects, taking leverage of opportunities resulting in additional increase in profit and sales
- Champion for people leadership, global collaboration, engineering, technological and stakeholder management

## SELECTED BUSINESS PROJECTS

- Regional and global contributor for developing and improving engineering processes, best practices and methods, execution of local business strategy and developing high level of customer relationship.
- Authored, adapt, manage, and maintain functional safety management lifecycle documents to suit the Siemens UK engineering and delivery according to IEC61508 and IEC61511.
- Assigned to lead and manage the full functional safety lifecycle from proposal, consultancy, engineering management and delivery.
- Own and lead the project and solutions audits, consultancy, and engineering management of critical infrastructure projects to comply with standards such as IEC61508, IEC61511, IEC62443 and EEMUA 191
- Regional and global contributor for developing and exploring innovative ways for engineering delivery and subject matter expertise knowledge sharing.
- Evangelist for the use of existing, new, and upcoming technologies such as Artificial Intelligence, Blockchain, Machine Learning, Edge, Cloud, Digital Twin, Industrial IoT and Modular Engineering.

## SELECTED TECHNICAL PROJECTS

- SSE Thermal: Underground Gas Storage Facility, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity and Consultancy Services
- Vital Energi: Energy Conversion Integrated Control System, SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity and Process Historian
- Wood plc: National Grid, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity and SIMIT Process Simulation
- Energos: Renewable Energy Advanced Conversion Facility Distributed Control System, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, and Industrial Cybersecurity
- Shell & Chevron: Terminal Plant Distributed Control System, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, Process Historian, and Industrial Cybersecurity
- Petronas: Floating Liquified Natural Gas Offshore Integrated Control and Safety System, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, and Industrial Cybersecurity