+44. 7808. 015613



kertvin.tugado@gmail.com



The Quays, Salford, Greater Manchester M50 3TW, United Kingdom



EDUCATION

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

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

ORGANISATION

International Society of Automation, ISA

International Information System Security Certification Consortium,

INDUSTRY KNOWLEDGE

Manufacturing Processes



Heavy and Highly Regulated



Digital Transformation



Cybersecurity Management System



Team, Project, and Stakeholder Management



Business and Financial Management



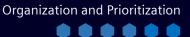
Consulting and Technical Sales



Leadership and Coaching



Business and Growth Strategy



Entrepreneurship and Ownership



Business Process and Tools







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 IT/OT security, functional safety, data analytics, engineering and project management, project delivery, consultancy, digitalization, software engineering and 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 INDUSTRIAL 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 and chemicals 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.
- Develop measures and sophisticated protection concepts of OT and IT security (e.g., based on IEC 62443, IEC62351 and NERC CIP) in an innovative working environment and current development projects as well as continuously assessing cyber risks to the business and propose adequate mitigations, including governance and processes improvements.
- 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.
- Risk assessment, derived prioritization and ensuring compliance with security standards and guidelines in all OT security projects.
- 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.

TECHNICAL SKILLS



CERTIFICATIONS

Siemens People and Business Management / Siemens AG

Functional Safety Engineer and Professional / TÜV SÜD

Cybersecurity Specialist on Security Risk Assessment / TÜV Rheinland

International Information System Security Certification Consortium, ISC2 / CISSP (WiP)

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.
- Supervise and report implementation of governance agreed strategy and Industrial Cybersecurity maturity as well as providing knowledge about energy market cybersecurity requirements.
- 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.

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.
- Responsible for overall design of secure networks and architectures of the industrial control system from concept to commissioning based on the principles set out in IEC62443.
- Act as the point of contact for all matters related to industrial cybersecurity and networking in a project environment. This includes evaluating the solutions of various 3rd party suppliers which interface to the control system.
- 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

Protocols

3rd Party Distributed Control System

International Framework and Regulatory Standard

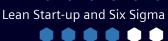


Blueprints and Architecture Design and Concepts



Solutions and Software Development

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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, IEC62351 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 Energie: Energy Conversion Integrated Control System, SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity, SIMIT Digital Twin and Process Simulation, and Process Historian
- Wood plc: National Grid, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity and SIMIT Process Simulation and Digital Twin
- 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
- Centre of Process Innovation CPI: Medicine Manufacturing Innovation Centre Grand Challenge, Siemens Opcenter Execution Pharma Manufacturing Execution System MES, Opcenter Mendix, Tecnomatix Digital Twin and SIMIT Process Simulation