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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 Society of
Pharmaceutical Engineering, ISPE
/ 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, TÜV FSEng-SFSP, CySec Specialist

ENGINEERING LEAD, LINE AND RESOURCE 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, safety systems, cybersecurity, project delivery, consultancy, digitalization, innovation, and software development.

Highly competent and TÜV certificate holder in engineering and professional level for IEC61508, IEC61511 Functional Safety (#TP22033110, SFSP23010514), and a Cybersecurity Specialist (#828/23) for IEC62443. In addition, A trained and Agile Certified Practitioner under Project Management Institute certification program PMI-ACP.

Deliver outstanding governance, leadership, and management for 30 diverse teams of contractors, consultants, project and system engineers in Europe and the Global Engineering Centre in Asia Pacific 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.
- Bring outstanding governance, leadership and management to the business and project teams.
- Spearhead and own engineering management 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 hiring, selection, and delegation process for 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.

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.
- COMOS region champion for the solutions business and successfully spearheaded the collaboration for the conceptualization, development, and release of COMOS tools and additional plug-ins.
- 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

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



3rd 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



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.
- Task and assigned by the business and one of the members of the committee on certifying and recertifying TÜV SÜD cybersecurity and functional safety blueprints based on IEC62443 and IEC 61511
- 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 contributor for the development and standardization of Siemens Opcenter Execution Pharma Manufacturing Execution System MES and Siemens PCS7 Pharmaceutical library architecture, test specification, detailed and functional design documents
- Regional contributor for the development, update and release of validated design, test execution and functional documents on topic of Cybersecurity, COMOS, PCS, Integration Services and MES.
- Locally spearhead and global contributor for raising the global engineering and resource center development for Process Control System PCS and Manufacturing Execution System MES
- 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 geared towards the advancement of Industry 4.0

SELECTED TECHNICAL PROJECTS

- Briar Chemicals: Biotechnology Complex Chemicals Facility Distributed Control System, Siemens SIMATIC Process Control System PCS7 Batch Control, Safety SIS Control, Industrial Cybersecurity and SIMIT Digital Twin
- SSE Thermal: Underground Gas Storage Facility, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity and Consultancy Services
- Vita Energi: Energy Conversion Integrated Control System, SIMATIC Process Control System PCS7, Safety SIS Control, Industrial Cybersecurity and Process Historian
- Wood plc: National Grid, Honeywell TDC Control Systems to 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 and Emerson DeltaV Distributed Control System, Safety SIS Control, and Industrial Cybersecurity
- Equinor Statoil Mariner Topside and Odfjell Drilling UK: Siemens Control System Engineering Management and Services, Commissioning and Offshore Support