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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** 

International Society of Automation, ISA

Project Management Institute, PMI

**Certified Information Systems** Security Professional, ISC2

### INDUSTRY KNOWLEDGE

Critical Infrastructure



Heavy and Highly Regulated



# MANAGEMENT SKILLS

Project Delivery and Execution



Software Management and Engineering



Team, Project, and Stakeholder Management



Functional Safety and Industrial Cybersecurity Management 

Consulting and Technical Sales



Leadership and Coaching



Business and Growth Strategy



Organization and Prioritization



**Business Process and Tools** 





PMI-ACP, CISSP, TÜV CySec Specialist, TÜV FSEng-SFSP, Siemens TÜV Certified Functional Safety Professional, Siemens Certified Professional for Industrial Networks - Security

# ENGINEERING LEAD AND GLOBAL LINE MANAGER PERSONAL INFORMATION

An agile certified practitioner and leader with 15+ years intensive years of solid technical expertise, business, stakeholder management and strong business ethics. Strong background on project execution and delivery, IT/OT security, functional safety, industrial control system, data analytics, systems engineering and digitalization, project management, 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.

Siemens DI Process Automation Industrial Cybersecurity and Functional Safety ambassador for Projects, Solutions and IoT business unit for UK, IE and Sweden.

# 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

- Global technical leader for the complete project lifecycle within digital industries being executed within the Europe region (UK, Ireland, and Sweden), managing global team to deliver multi-million-pound projects.
- Managed engineering and risk controls to the assigned projects, and managed resources, work breakdown schedule, workload, and key performance.
- Create and maintain project delivery plans, holding the responsible parties accountable to deadlines, maintaining risk logs, leading project meetings, and providing regular and timely updates to key stakeholders.
- Own and managed software and hardware project development utilizing proven methodologies in project and engineering management (e.g. Waterfall, Hybrid, Agile, DevOps, Scrum, PMI-ACP).
- Serve as a subject matter expert in integrated control and safety system, and industrial security supporting the engineering team and business functions.
- Own the industrial cybersecurity, functional safety engineering management and project life-cycle activities on critical infrastructure projects specifically on energy, chemicals, and power generation industry.
- Supports evaluating the cybersecurity controls implemented for ICS/OT and strengthen the security architecture to ensure the resilience of systems, equipment, and networks against cyber-attacks.
- Develop measures and sophisticated protection concepts of OT and IT security (e.g., IEC 62443, IEC 61511, IEC TR63069, IEC62351 and NERC CIP) in an innovative working environment and current development projects as well as continuously assessing cyber risks and propose adequate mitigations.
- Tracking of technical developments, technological trends, awareness of new threats and risk, as well constant expansion of know-how in the field of IT and OT security, and functional safety.

#### 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

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 Product and Solution Security / 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

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

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International Framework and Regulatory Standard

System Integration

Blueprints and Architecture Design and Concepts

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 life cycle projects, approximately ~£35M in total revenue
- Champion for project delivery, execution and controls contributing to improved overall business targets and margin
- 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.
- Integral member of HQ functional safety and industrial security team to generate blueprints, frameworks and architecture focusing on energy, power generation and chemicals industry
- 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

- Global contributor for developing and improving engineering processes, best practices and methods, execution of local business strategy and developing high level of customer relationship.
- Own, manage and improved functional safety, cybersecurity, and software delivery projects for critical infrastructure industry.
- Own and manage the full functional safety life-cycle and from proposal, consultancy, engineering management and delivery.
- Managed and co-authored industrial cybersecurity project and solutions documents, delivery, and architecture.
- 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, IEC61850, IEC62351 and EEMUA 191.
- 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 Machine Learning, Edge, Cloud, Digital Twin, Industrial IoT and Modular Engineering.

# SELECTED TECHNICAL PROJECTS

- 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
- GW Pharma: Sittingbourne Site, SIMATIC Process Control System PCS7 Batch Control, Opcenter Execution Pharma Manufacturing Execution System MES, Process Historian, SIMIT Digital Twin and Industrial Cybersecurity
- Siemens Energy: TAP Greece, SIMATIC Process Control System PCS7, Safety SIS Control, SIMIT Digital Twin and Industrial Cybersecurity
- 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
- Shell & Chevron: Terminal Plant Distributed Control System, Siemens SIMATIC Process Control System PCS7, Safety SIS Control, Process Historian, and Industrial Cybersecurity