



Intern Program Overview

GDN Mexico 2023

Global Delivery Network, Mexico City
Javier Hidalgo

Global Delivery Network & Cloud Application Services



India, Pune



India, Bengaluru



India, Hyderabad



Malaysia, Penang



Poland, Wroclaw



Mexico, Mexico City

GDN ... *scale capacity to deliver value*

440+
Associates

100+
Architects

285+
Consultants



2600+
Person years of experience

240+
Customers

We developed the Intern Program to...

- attract the best and brightest in the industry
- provide new engineers with the tools and skills needed to contribute to customer projects
- learn how-to topics that range from soft skills and customer-facing projects to implementation
- provide customers implementation and customization solutions that leverage our suite of software products
- interface with customers, build and maintain client relationships
- develop functional and application design specifications
- expose Associates to real life Industry software implementation projects

Intern Program Structure

- Duration: 19 Weeks*
 - 11 Weeks Training
 - 9 Weeks Project Work
- Customer Simulation
 - Intern Company designs and manufactures aircraft components for Aircraft Manufacturers. The headquarters is in Rendon, TX with manufacturing facilities and Design houses distributed globally.
 - As the business has grown, they have lost control of the data. It is scattered all over file servers.
 - Issues with getting designs finished per their schedule for manufacturing.
- Overall, 1 year contract
 - After Intern, Associate will be assigned for real customer projects under Shadowing schema.
 - Towards the end of contract, Associates will be eligible for full/permanent positions at Siemens DI SW.

Intern Project

Project Scope

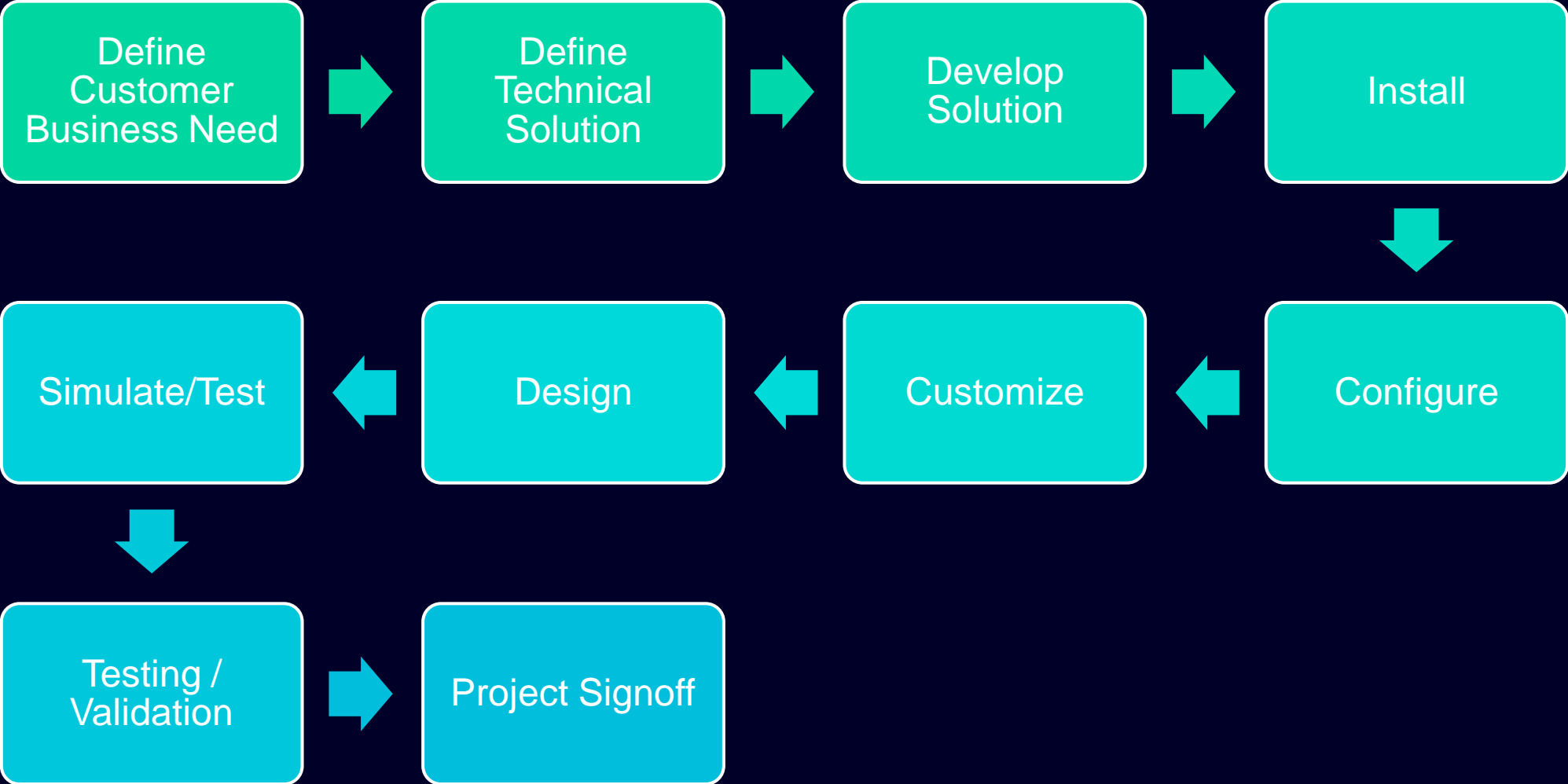
The scope of this project is divided into several areas to be addressed:

The business processes, the software application(s), data to be handled, the geographic locations affected by the project, and any out-of-scope items that need to be listed explicitly.

Intern Participants will need to investigate and develop documentation that details the business process of the Intern Company.

Participants should be prepared to investigate which software applications will be required to implement the desired functionality to address Intern Companies present needs.

Intern Class Project - Scope



Intern Individual Project Assignments

The following items will be presented as individuals during the program:

- Problem Statement
- Work Breakdown Structure
- Risk Analysis
- Sprint Schedule
- Test Plan
- User Stories
- Final Presentation/Demo

Fresh Graduates from...

- Mechanical / Mechatronics / Robotics
- Electrical / Electronic
- Industrial & Process
- Automotive / Aerospace
- Bio-medics / Chemistry / CP&R
- Computational Systems Engineering (IT)
- Digital Transformation (for Manufacturing Industry)

Desirable competences:

- Programming Languages skills
 - C, C++, C#, Java, Python, XML
- Server, DB & Web applications
 - Windows, Linux, Oracle, PHP, HTML, CSS
- Cloud

with focus in...

- Product Development process
 - Design to validation
 - Digital document management
 - Change Management
 - Collaboration
- Manufacturing Planning
 - Advanced Planning and Scheduling
 - Shop Floor connection
 - Traceability
 - OEE Monitoring
 - MES solutions by Industry

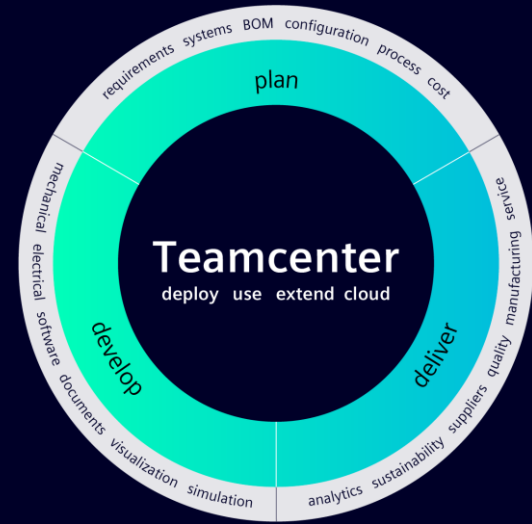
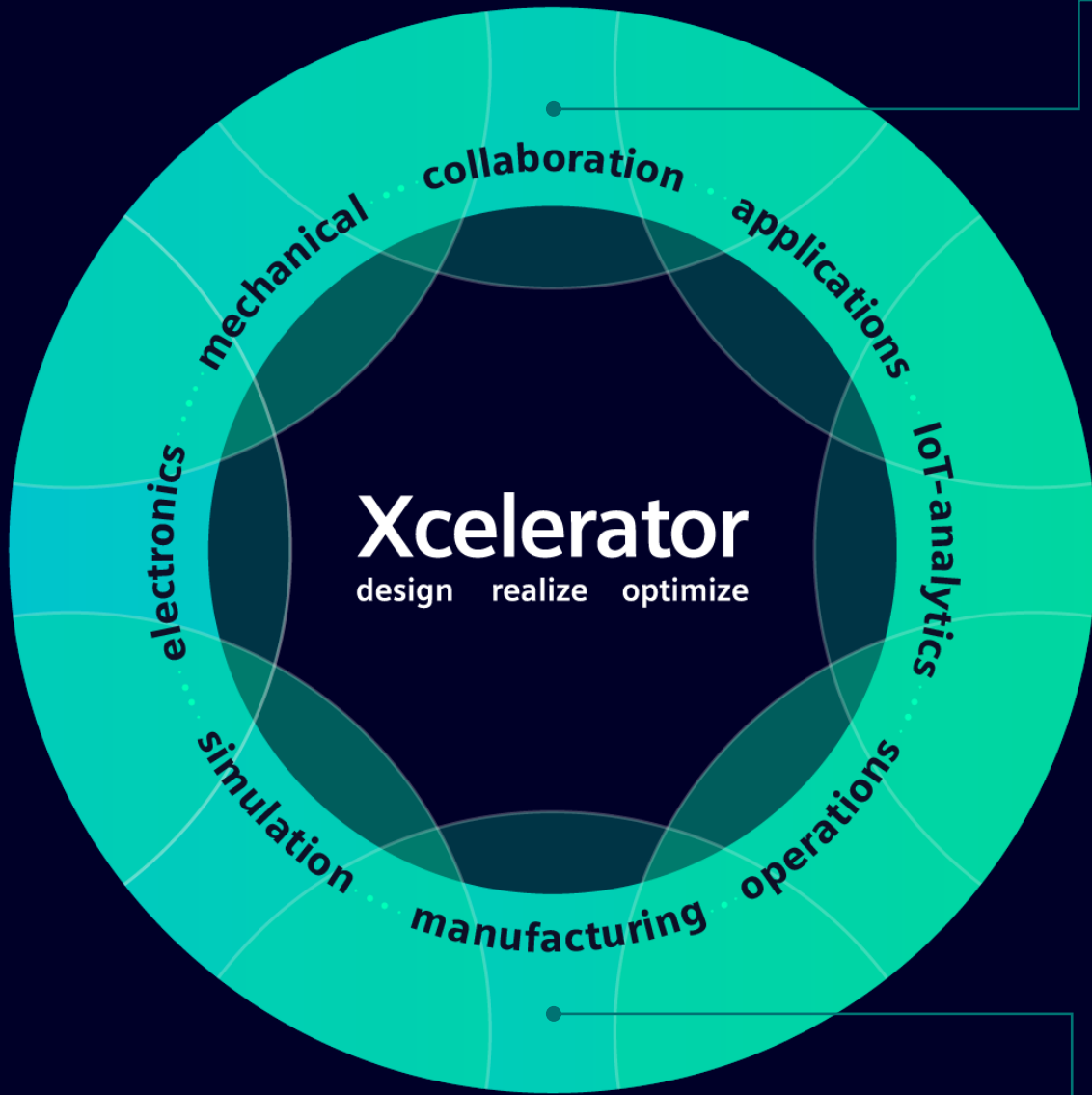
Intern Program PLM & MOM

(Product Lifecycle Management & Manufacturing Operations Management)

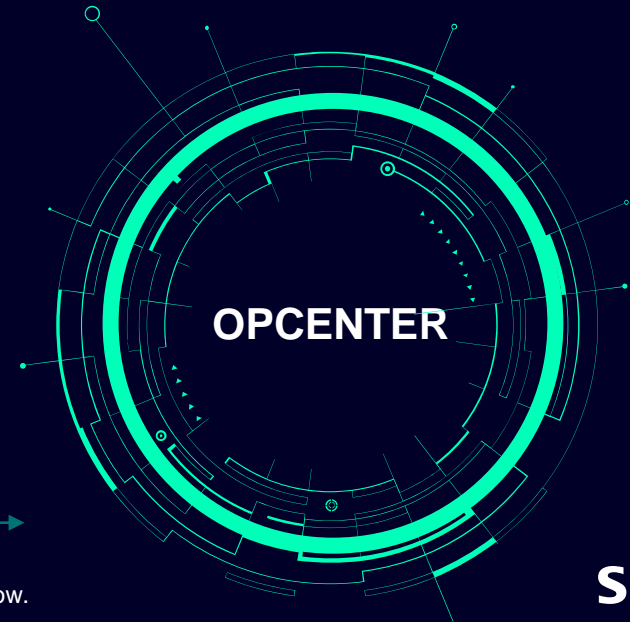
Lines of Products

Global Delivery Network

Mexico City – 2nd Generation



The catalyst for
the Digital Enterprise.



Teamcenter

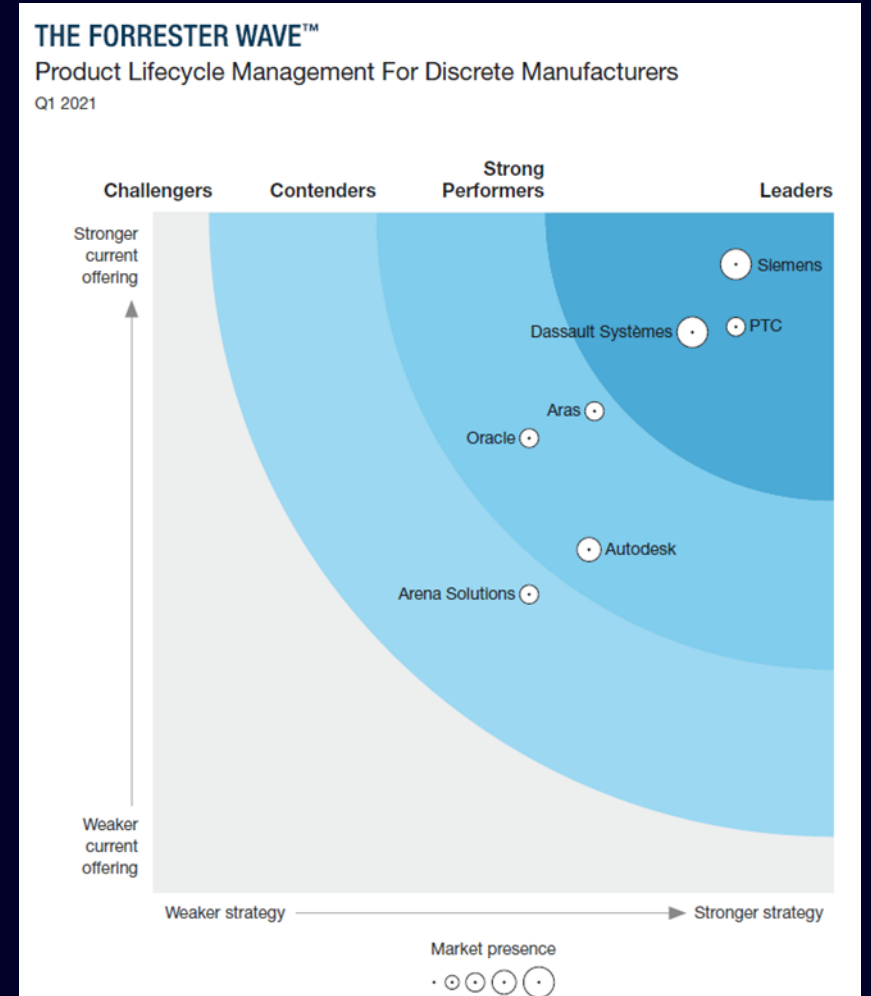
A PLM Leader

Forrester Wave™ PLM report recognizes Siemens and Teamcenter

Highest possible scores in 23 criteria including:

Bill of Material Management	Requirements	Additive Manufacturing	Digital Twin	Embedded Software Lifecycle Management
Design	Simulation	Manufacturing Process Planning & Management	IoT Platform & Data Management	Vision & Product Roadmap
User Interface	Architecture	Configurability & Flexibility	Developer Tools	Integration Capabilities

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GDN Intern Program Structure - Teamcenter

- **6 Weeks Programming Training (focus on AW Client)**
- **8 Weeks Product Training - Teamcenter**
 - 39 days of instructor-led training
 - 24 days of project work included (runs in parallel)
- **Reference Material:** Standard Material on Xcelerator Academy & Standard ILT from Learning Services

- Project Details** (shared with participants)
- Problem Statement & Business Process Diagram
 - Tasks List and Completion Timelines
 - Task Instructions

- Performance evaluated on**
- 4 Periodic Evaluations
 - Completion of project tasks
 - Performance of final customized solution and project presentation

Programming

- C Programming
- Web Technologies (HTML, CSS, JavaScript)
- Angular JS

Product Training & Project

Week 1	Day 1 : Orientation	Day 2: AW Introduction	Day 3-5: USER (RAC & AW)
Week 2	Day 6-7 : USER (RAC & AW)	Day 8-10: APP ADMIN (RAC)	
Week 3	Day 11 : APP ADMIN (AW)	Day 12-15: BMIDE	
Week 4	Day 16 : BMIDE	Day 17-19: Installation	Day 20: AW CONFIG
Week 5		Day 21-25: AW CONFIG	
Week 6	Day 26 : AW CONFIG	Day 27-29: ITK CUST	Day 30: AW CUST
Week 7		Day 31-35: AW CUST	
Week 8	Day 36-39: AW CUST	Day 40: Project Presentation	

2021 Gartner Magic Quadrant for Manufacturing Execution Systems

A continuous recognition in a highly dynamic and changing environment



Siemens Digital Industries Software is recognized as a LEADER for the 4th time in 2021 Gartner Magic Quadrant for Manufacturing Execution Systems

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GDN Intern Program Structure - Camstar

- 28 Days of Mandatory Blended Training
- 17 Days of Optional Training on OP EX SEMI & OP EX EL
- Reference Material: SABA Learning Centre & Xcelerator Academy

Performance evaluated on

- Completion of assignments

Programming

C# .Net, JavaScript

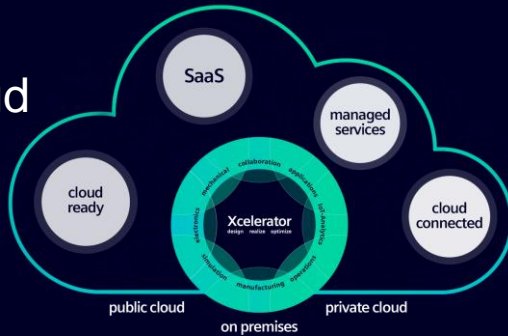
Product Training

Week 1	Day 1-5: Product Introduction	
Week 2	Day 6-8 : Functional Enablement	Day 9-10: Technical Enablement
Week 3	Day 11-15 : Technical Enablement	
Week 4	Day 16 : Technical Enablement	Day 17-20: Project Simulation & Presentation
Week 5	Day 21-25: Project Simulation & Presentation	
Week 6	Day 26-30: Project Simulation & Presentation	
Week 7	Day 31-35: Project Simulation & Presentation	
Week 8	Day 36: Project Simulation & Presentation	Day 37-40: OP EX Semiconductor Product Training
Week 9	Day 41-45: OP EX EL Product Training	



Closed Loop Engineer & Manufacture

On-Prem
→ Cloud



Data Transfer
Automatic – Real Time
Bidirectional

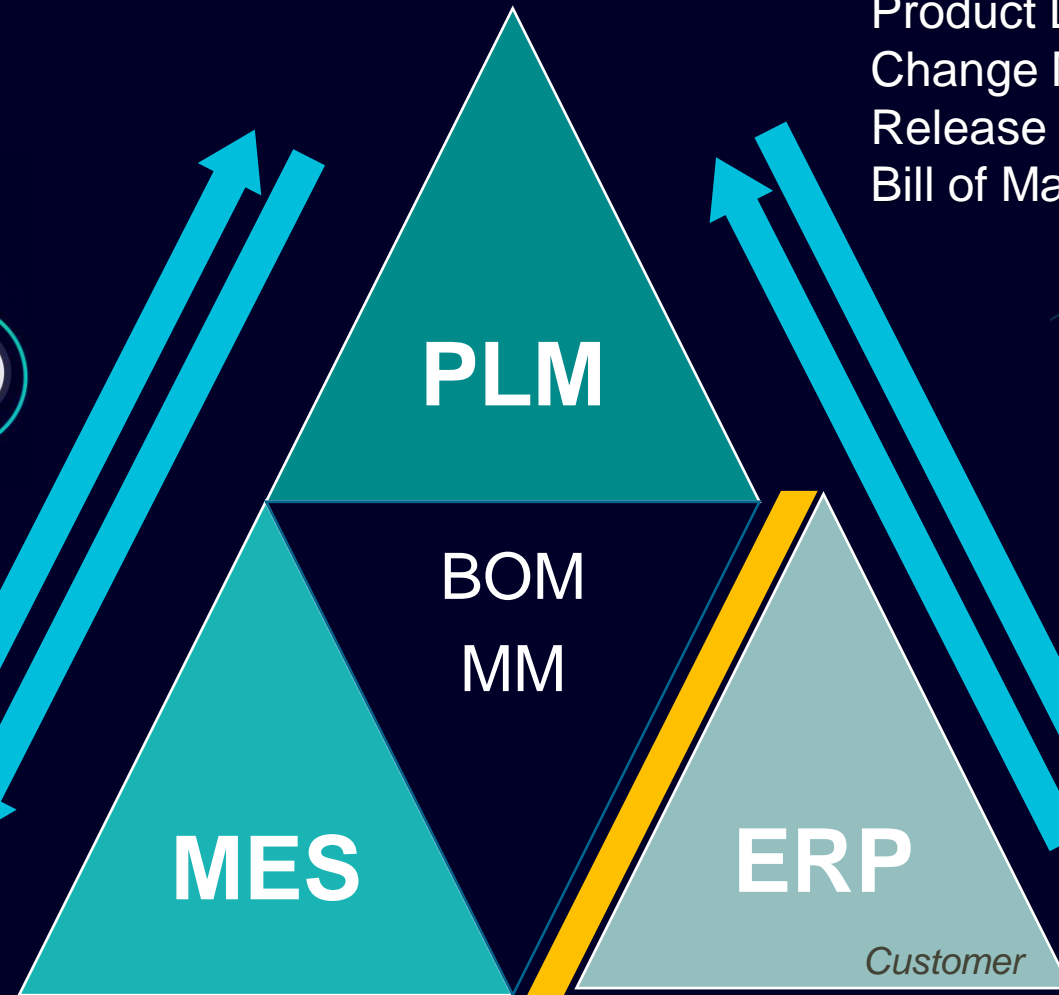
Engineering
Product Development
Change Mgmt.
Release Mgmt.
Bill of Materials



Integration
Connectors
Web Services
XML Files

Transactions
Material Master
Procurement
Supply Chain
Logistics
Suppliers Mgmt.

Manufacturing
Shop Floor
Production Planning
OEE Monitoring



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More info on Intern Program (Global)

[DISW Careers Page – Intern](#)

More info on Siemens DI Software:

<https://www.plm.automation.siemens.com/global/en/>