gpa Purdue Model Breakdown

LEVEL 5 — Edge DMZ/Internet

- The enterprise network edge to the internet
- Usually contains corporate firewalls, email, web pages, etc.

LEVEL 4 — Enterprise

- Supports the business units
  - Management, HR, Sales
- Usually what we think about as a business network

LEVEL 3.5 — ICS DMZ

- DMZ layer - Not originally included, layer 3.5 was added to the original model to address security concerns
- Provides a clearly defined network edge between the business networks and OT networks
- This zone is typically the place where rules are established so no device from the OT network directly connects to the IT network and vice-versa
- Properly configured DMZ should house applications such as Data Historians, MES systems, patch and update servers, etc.

LEVEL 3 — Manufacturing

- Managing production workflow
- Manufacturing Execution/Operations Management Systems (MES/MOMS)
- Batch Management
- Data historians and related middleware

LEVEL 2 — Supervisory Control

- Supervising, monitoring and controlling physical processes
- Real-time controls and software
- DCS
- Human Machine Interface (HMI)
- Supervisory Control and Data Acquisition (SCADA) software

LEVEL 1 — Local Control

- Sensing and manipulating physical processes
- Process sensors
- Analyzers
- Actuators and related instrumentation