

## Personal Project Portfolio: Purchase Order, Quote, and Inventory Systems

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### 1. Purchase Order System

Overview:

Designed and developed a scalable Purchase Order system deployed across four corporate manufacturing plants, each with unique approval workflows, department structures, and operational rules.

Key Features:

- Multi-plant support with plant-specific approval chains and thresholds
- Auto-approval logic based on department limits
- Draft saving and versioning for unsubmitted orders
- File upload handling with auto-save trigger
- Active Directory integration for authentication and role-based access
- Audit trail of submissions, edits, and approvals

Tech Stack: Angular, ASP.NET Core Web API, SQL Server, Entity Framework Core, Azure, Active Directory

### 2. Quote Management System

Overview:

Built a full-featured quote management system to support sales and operations teams with version control, status tracking, and multi-user collaboration.

Key Features:

- Predictive search with grouped results by part name, number, and MAC address
- Draft saving and quote revisioning with audit history
- File attachment management
- Standard and custom notes with dynamic saving
- Approval status updates and role-based controls

Tech Stack: Angular, ASP.NET Core Web API, SQL Server, Entity Framework Core

### 3. Inventory Management System

Overview:

Created an inventory tracking system used across four separate plants to manage part locations, movements, and audit history, while supporting barcode scanning and role-based views.

Key Features:

- Barcode-enabled part tracking
- Plant-specific inventory logic with centralized reporting
- Location management and part status visibility
- Audit trails for movement, removal, and in-use status
- Integration with quote and PO systems

Tech Stack: Angular, ASP.NET Core Web API, SQL Server, Entity Framework Core