

Systems Integration Engineer with 8+ years building reliable software systems that connect industrial equipment, databases, operator interfaces, and business systems. I own projects across the full engineering lifecycle – from pre-engineering design decisions and detailed engineering through in-depth system testing and month-long on-site commissioning at customer sites.

EXPERIENCE

Systems Integration Engineer

June 2021 – Present

Primetals Technologies USA LLC · Remote

- Delivered high-availability industrial automation systems interconnecting equipment, databases, operator interfaces (HMI), reporting tools, and higher-level business systems.
- Designed and improved data pipelines and reporting tools used for analytics, production reporting, material quality tracking, and operational visibility for internal and external stakeholders.
- Cut resource utilization in existing systems by optimizing inefficient database queries, reports, and data-processing logic.
- Investigated and resolved production issues in live industrial environments where uptime, data integrity, and system reliability were critical.
- Led engineering reviews with internal teams, customers, and external stakeholders, keeping work aligned with scope, budget, and technical requirements.

Infrastructure Engineer

February 2016 – June 2021

Primetals Technologies USA LLC · Alpharetta, GA

- Maintained internal company networks, servers, and infrastructure systems.
- Supported migration of internal infrastructure from legacy MPLS-style networking to SD-WAN.
- Developed data pipelines and reporting tools supporting resource planning and operational visibility for upper management.

SELECTED PROJECTS

Connection Proxy PRIMETALS · PRODUCTION

TCP/IP proxy mediating telegram traffic between two disparate systems with incompatible messaging requirements; self-correcting error handling designed to sustain 99.999% availability.

Aquarium Streaming Website CONTRACT

Secure backend and frontend for streaming live video remotely, with SSL authentication and login-gated access.

Apartment Selector Tool CONTRACT

Web app aggregating apartment data from multiple sources, with API-driven metrics and customizable comparison criteria.

FULL-LIFECYCLE CAPABILITY

Comfortable owning any phase of a project, end to end –

01 Pre-Engineering

Shaping design decisions and practical implementation choices.

02 Detailed Engineering

Building and integrating the chosen solutions across the stack.

03 System Testing

Verifying completed work in detail before it ships.

04 Commissioning

Month-long on-site deployments at customer sites.

SKILLS

LANGUAGES

C · C++ · C# · Python · Visual Basic · T-SQL · PL/SQL

INTEGRATION

Systems Integration · Industrial Automation · PLC & HMI Integration · Embedded Systems · API Development · Data Collection Systems

DATA

SQL Server · Oracle Database · Database Design · Data Pipelines (ETL) · Reporting & Analytics

PLATFORMS & TOOLS

.NET · Windows Server · Linux · Git · SVN · TCP/IP Networking · Oscilloscopes · Logic Analyzers

EDUCATION

B.S. Computer Engineering

Kennesaw State University

Dean's List Recipient