Blueprint

Video Analytics – Capabilities Overview
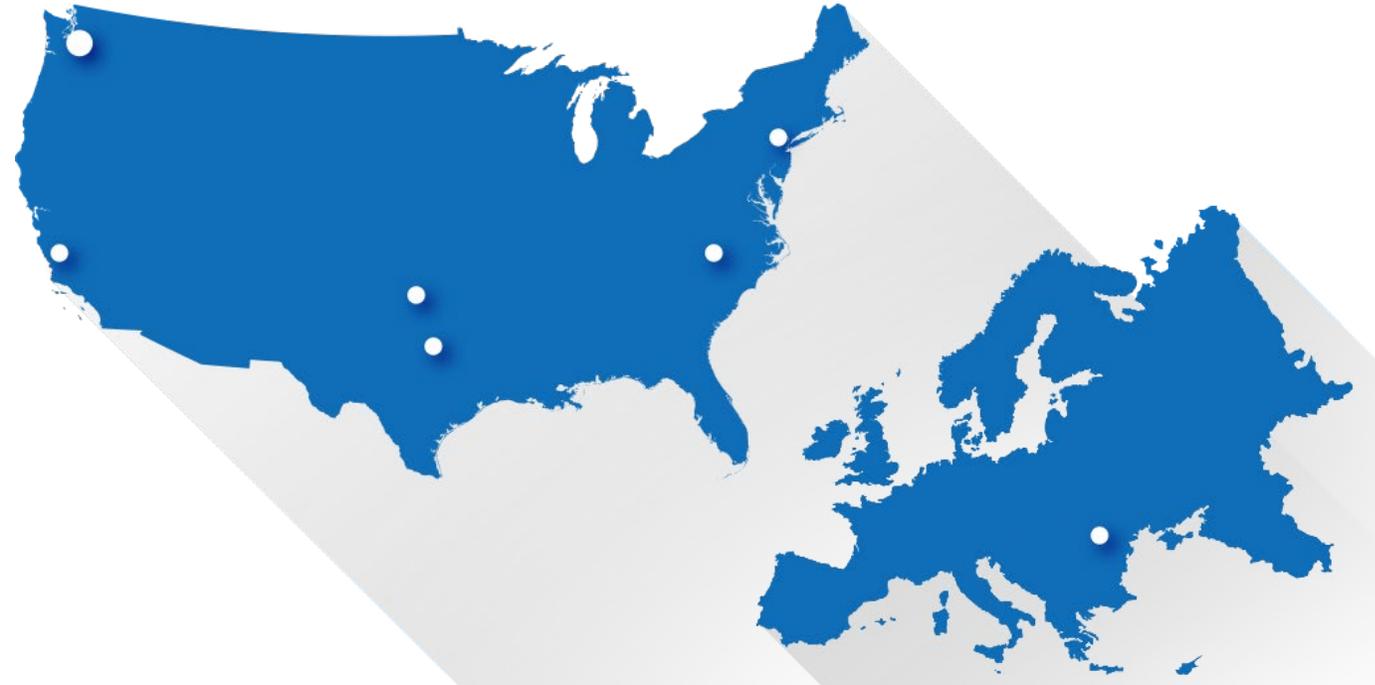
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Blueprint Technologies • 505 106th Ave NE, Third Floor • Bellevue, WA 98004

Who We Are

Blueprint is a technology firm that connects modern business solutions, products, and services to transform and grow companies.
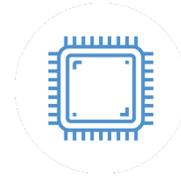
We provide companies around the world with the insight, agility, tools, and infrastructure needed to achieve business goals and accelerate digital transformation. Our solutions and products address your highest value use cases and directly correlate to return on investment.

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We Know Your Industry and Beyond

We facilitate innovation by combining knowledge, methodologies, and perspectives from cross-industry experts.

The collective expertise of our specialists in your industry and beyond sparks creative ways of solving problems that reveal solutions in unexpected places—because building for the future requires thinking differently.

Technology

Manufacturing

Utilities & Energy

Healthcare

Finance
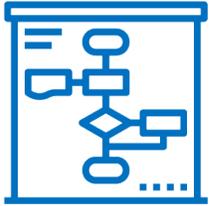
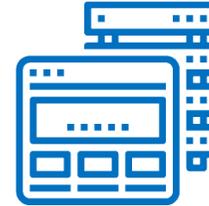Food & Beverage

Retail

Gaming

Travel

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What We Do

Business Strategy

Redefine what's possible and achieve it with innovative business and technology strategies that drive exceptional, scalable, and repeatable results.

Technology Solutions

Capitalize on cutting-edge technology to plan smarter, act faster, and maintain your competitive edge while decreasing costs, maximizing return on investment, and increasing revenue.

Services At Scale

Leverage Blueprint's expert teams, processes, products, and support infrastructure to reduce overhead and cost and increase flexibility and agility.

Innovation

Reimagine your business through invention and improvement that addresses the real problems of today while building for the future.
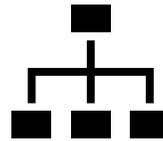
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How We Do It

Blueprint provides multiple disciplines and resources based on a client consumption model.
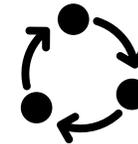
Strategic Staffing

Subject matter expertise to augment client projects or organizational roles

Project Services

Resource(s) organized and managed by Blueprint, defined by time, budget, deliverables

Managed Service

Continuous service defined by service levels aligned to business outcomes and value

Your Innovation Partner

Blueprint's repeatable formula for project and innovation success combines our guidance, expertise, and diversity of thought with an intimate knowledge of your key business initiatives, resulting in customized solutions that drive impact across your organization.

The **Blueprint** Way

- Determine high-impact use cases to prove value quickly
- Iterate, mature, and scale with speed and quality
- Utilize a technology-agnostic approach
- Drive value beyond the products and services we offer
- Prioritize and elevate the customer experience
- Communicate effectively and often

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NASH: Video Analytics
Powered by Blueprint

Derive deeper insight into your customers, employees, and areas of interest with the Nash Video Analytics solution. Advanced analytics and machine learning technologies built on Azure allow you to take control of your video assets to accurately detect and track objects in motion, extract pattern-based insights, and more.

Integrate geospatial and pattern-of-life analytics with existing datasets to more accurately predict trends, improve operational efficiency, and reduce time to insight.

Augment existing analytical capabilities with event and behavorial pattern discovery across disparate video assets.

With a configurable cloud-based CPU and GPU processing pipeline, reduce video asset processing timelines to incorporate insights into analysis work streams in a fraction of the time compared to traditional on-premise infrastructure.

Innovation: Image & Video Analytics

Facilities & Life Safety

- Field Service Operations & Safety Alerts
- Work-Zone & Safe-Gear Compliance
- Equipment Tagging & Use
- Inventory Control, Count & Labeling

Security

- Realtime Facial/Emp. Verification
- Zone, Behavior – Detect & Alert
- Access Control – Permissible Employees by Zone
- Field Services – Gate Access, Face/Vehicle Detect

Real-Time Classification

- Standing Operational Docs – Classification Pulled From Images
- Real-Time Object Detection & Alerting
- Form, Handwriting & Image-Based Text -> To Text Processing
- Structural Analysis

Spatial Human Interaction

- Retail: Congestion, Inefficient Traffic
- Mapping: Heat-Map Presence of Life
- Zone Definition, Path Tracking
- Measured Emp.-Customer Interactions

Project Engagement Stages

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1 MVP Candidate
via Blueprint's Project. Def. Workshop

Rapid Evaluation
- Idea on Hi-Value Opportunities for Video AI -> Select MVP Candidate
- Success Criteria Defined
- Team Aligned to Goals, Risks
- **Deliverable:** Timeframe Established. Project Chartered

2 Solution Scale &
Technical Approach

Video AI Services @ the Edge or Cloud
- Role of Cognitive Services (Pre-trained models as-a-Service)
- Video ML Event Latency, Bandwidth -> Driving Edge Solution
- Role of Developed Vision ML Models, ML Ops & Accelerators
- **Deliverable:** Scale & Cost Estimations, Architecture

3 Iterate, Build,
Deliver

Agile Development & MLOps
- 2-Week Sprints, #DemoDays. Validation
- Model Testing @ Scale
- Day-2 Ready. Knowledge Transfer, MLOps, Continued Maint.
- **Deliverable:** MVP Model Validated, Ready for Scale.

Video – Data Science Core Team

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Business Analyst(s) II/III

- Experience Analysts, from Industry
- Aligned to the Business, Embedded
- Advocate for a Positive UX/UI
- Measures Value & Adoption
- Agile, Support Product Owner
- Backlog Management

Data Scientists & Engineers

- Modern Video AI/ML Frameworks
- Cognitive Services Engineering
- MLOps & Model Management
- Edge Computing Platforms
- Cloud, Scale, Security
- Day+ Operations

Project Delivery Manager

- Agile Leader. Client Success
- Drives Adoption, *Not just IT Tasks*
- Manages Stories, Sprints & Tasks
- Reporting & Value-Creation
- Resource Management
- Point of Escalation

Blueprint Extended Skills / Depth If Needed

Blueprint Enterprise Architects
- Highly skilled EAs, from Industry
- Supporting Complex Enterprise Integrations

Blueprint Pro Devs
- Hi Scale REST/API & Integration Plumbing, if Needed
- Dev Skills for Alerting, Event'ing & Queue Mgmt.

Blueprint UX Pros
- When Complex / Rich Apps Require Formal UX
- Seasoned Pro in Applying UX to Modern User Exps.

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Transformation begins with innovation.

Let's accelerate your success, together.

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