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IMAGINATION TURNS TO INNOVATION

Streamlining Success:

How Software Modernization Elevates Manufacturing Efficiency and Scalability

A presentation by Eric Lawrence, Director of Growth at Imaginovation

Who am I ?

Eric Lawrence, Director of Growth at Imaginovation

Raised in Chapel Hill, NC

I’ve been working over 12 years in the space. I collaborate with many professionals across manufacturing and other industries to innovate and grow their business through custom technology.

What are we discussing today?

01. What are some of the challenges manufacturers are facing with their current software?

02. What impact could modernizing your software make?

03. Comparing custom solutions with off-the-shelf options.

04. Examples of how manufacturers modernize their operations.

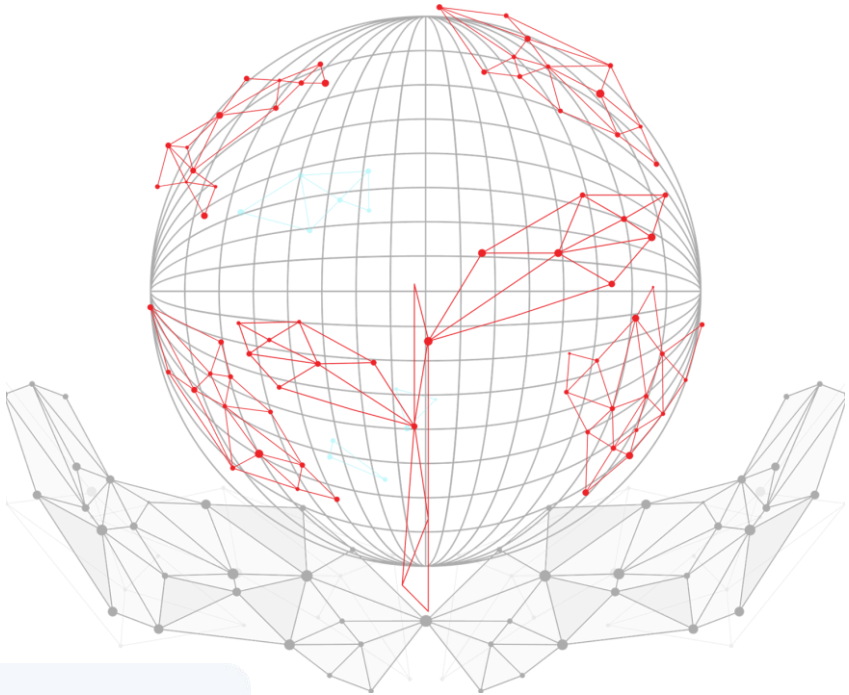
05. The Impact of AI in Manufacturing.

06. What steps can you take to modernize your existing systems?

Who is Imaginovation?

Imaginovation, based in Raleigh, North Carolina since 2011, is a leader in digital transformation and product development, crafting custom software that drives innovation and impacts growth.

Our digital products streamline workflows, modernize software, and transform ideas into reality, enhancing business efficiency and growth.



Software Challenges faced in Manufacturing

Inefficiency and Errors

Manual, error-prone tasks; poor software integration.

Lack of Real-Time Data

Need modern software for timely decisions.

Scalability Issues

Outdated systems limit growth and responsiveness.

Compliance and Security Risks

Old systems risk breaches and non-compliance.

Maintenance Costs

Costly, complex maintenance of outdated software.

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Importance of Software Modernization

01.Enhanced Efficiency

Automates tasks, increases efficiency, minimizes errors.

02.Improved Scalability

Adapts to needs without major investment.

03.Data-Driven Decisions

Provides real-time analytics for improved decisions.

04.Cost Reduction

Reduces long-term maintenance and inefficiency costs.

05.Competitive Advantage

Keeps ahead in fast markets, boosts production, complies with standards.

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How custom software meets specific needs that off-the-shelf software cannot.

Tailored Fit

Automates tasks, increases efficiency, minimizes errors.

Exclusive Features

Offers specialized features beyond standard software.

Flexibility and Scalability

Easily adapts to business changes and growth.

Competitive Edge

Automation and customization enhance market position.

Integration with Legacy Systems

Seamless integration with existing systems, ensuring continuity.

How CREE Innovated the Lighting Industry

Company Overview

CREE Lighting, a billion-dollar leader in lighting, offers indoor, outdoor, and LED solutions for consumer and commercial use.

Sustainability Focus

Committed to sustainable, eco-friendly lighting to lower energy use.

Challenge - Objective

CREE aimed to develop a web app to automate and control commercial building lighting.

Challenge - Need

The app must optimize and cut energy costs with a user-friendly interface.

Client Case Study: CREE Lighting

Solution

Developed through a collaborative process including planning, design, development, and testing.

Outcomes

Intelligent Lighting Control

Created a user-friendly web app enhancing smart lighting management.

Energy Savings

Features like daylight harvesting reduce lighting costs by up to 70%.

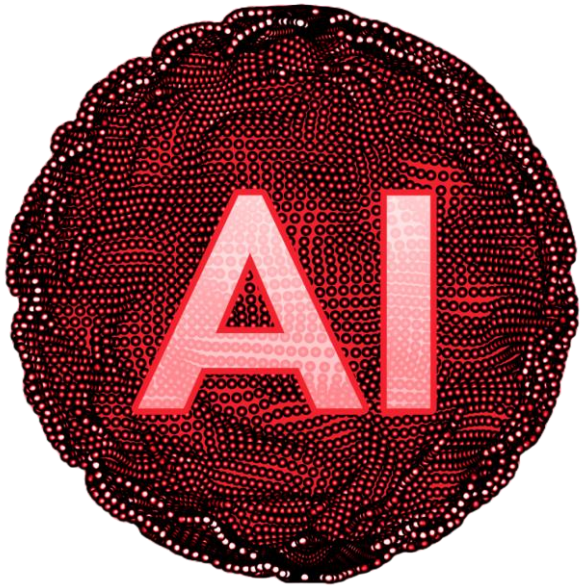
Environmental Impact

Significantly lowered energy use, boosting environmental sustainability.

Award

Won IoT Product of the Year

Where does AI fit into all of this?



The AI Paradox

Everyone loves to talk about AI, but very few want to put in the leg work to put in the infrastructure for it

AI’s Potential Impact

Predictive Maintenance

AI prevents equipment failures, extends life, and cuts downtime.

Optimized Production Schedules

AI reduces bottlenecks and increases efficiency.

Defect Detection

AI more accurately detects defects, improving quality and reducing waste.

Process Optimization

AI enhances manufacturing processes for better product quality

Demand Forecasting

AI improves demand forecasts, reduces costs, and optimizes inventory.

Supply Chain Resilience

AI predicts and mitigates supply chain risks, ensuring consistent production.

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What steps do you need to take to modernize your existing software?

- Assess and Plan
- Design the Interface & UX
- Develop/Code and Test
- Polish and Launch
- Support

What expectations should you have for launching your software product?

Process Duration: 6 to 12 months.

Success Tips

Gather team feedback but designate a single contact for project communication to avoid delays and expedite the process

Small platforms

$100,000 - $150,000

Medium platforms

$150,000 - $300,000

Large/enterprise platforms

$300,000+

How Superlative Freight Streamlined Their Logistics

Background

Initially used a comprehensive spreadsheet for warehouse operations which became inefficient due to the volume of data.

Challenge

Needed a robust Warehouse Management System to manage inventory and operations effectively

Client Case Study: Superlative Freight Logistics

Solution

Developed a custom Warehouse Management System to streamline warehouse operations, including real-time inventory tracking, order management, and customer access to transaction reports

Outcome

Enhanced operational efficiency, reduced errors, and improved client service.

Recap: Importance of Software Modernization in Manufacturing

Key takeaways

Lack of efficiency and scalability are key indicators that it's time to upgrade

Consider flexibility and scalability when choosing custom solutions over out-of-the-box

Put the infrastructure in place to leverage new technologies like AI

Expect the development process to take at least 6 months and cost $100k+ to assess if you're ready

What can you do right now?

Let us help you plan your future of innovation in technology

Schedule a meeting with us at the show (booth #40) or after the show via a virtual call.

Thank you for your time!

Any questions?

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