



Integrating Neurala AI in Floyd Furniture

A Strategic Leap in Quality Control

Team members

- Vatsal Patel
- Snehal Yadav
- Tejal Palwankar
- Melita Coutinho



FLOYD

Project Proposal

Proposal

Elevate Floyd Furniture's quality with Neurala's AI, solving production challenges and exceeding Wayfair's expectations.

Problem Statement

- Need to improve quality assurance processes to handle large orders and maintain customer satisfaction.
- Integration of advanced AI-driven technology to detect and rectify product flaws.
- Integrating Neurala's AI system with Salesforce CRM and manufacturing processes requires a sophisticated, coordinated approach.

Overview

Scope:

The project will focus on the integration of Neurala's Vision Inspection Automation (VIA) software, configured for the Floyd Shelving System and the Floyd Round Table. The ultimate goal is to revolutionize quality assurance, proactively addressing issues related to fastener kit accuracy and manufacturing flaws.

Technology Used:

Neurala's Vision Inspection Automation (VIA) software, integrated with Salesforce CRM.

Implementation Phases

- Phase 1: Planning, team training, and pilot testing.
- Phase 2: Full-scale deployment and quality monitoring.
- Phase 3: Evaluation, refinement, and expansion.



Vision and Mission

To transform Floyd Furniture into a technology-driven leader in the furniture industry, setting new benchmarks in manufacturing precision and product quality.

By integrating advanced AI technology, we aim to significantly enhance the efficiency of our manufacturing processes, ensuring every product meets the highest quality standards.

TECHNOLOGY OUTCOMES

- ★ AI-Driven Quality Control
- ★ Seamless Integration with CRM
- ★ Data-Driven Decision Making
- ★ Skilled Workforce Empowerment

Process Deliverables

- ❑ Seamless integration of Neurala AI into Floyd Furniture's manufacturing system
- ❑ Delivery of a detailed presentation outlining the integration process, benefits, and outcomes
- ❑ Develop a training program for both new and existing staff
- ❑ Enable upper management with direct access and control over the quality assurance process

Product Deliverables

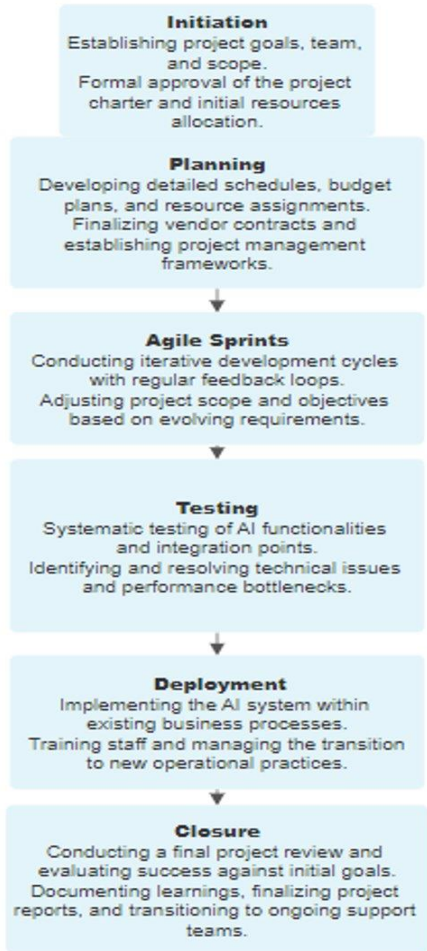
- ❑ Anticipate a substantial increase in customer satisfaction
- ❑ Implement Neurala AI for meticulous inspection, minimizing defects
- ❑ Unlock the capability to fulfill larger orders seamlessly
- ❑ Enable the system to manage and fulfill multiple orders concurrently

Scheduling Assumptions

- Successful collaboration between Floyd and Neurala AI is anticipated
- Assumption of constant availability of human resources for the project
- No hardware incompatibility issues during the software integration process
- Neurala possesses the technical expertise for AI integration
- Availability of necessary hardware and quality data for training Neurala's AI models
- Integration without significant disruption to current manufacturing operations
- Assurance of prompt technical support from Neurala
- Effective training for employees on Neurala VIA software
- Adherence to data security and privacy standards

Constraints

- ❑ Time delay if stakeholders don't approve scope, budget, or project plans
- ❑ Numerous holidays in October and November might impact project timelines
- ❑ Additional costs if any parts are damaged during the integration process
- ❑ Dependence on timely provision of materials by vendors and Neurala teams
- ❑ Swift implementation required to meet market demands
- ❑ Limited timeframe for employee training on new systems
- ❑ Goal to minimize impact on current manufacturing processes
- ❑ Critical milestones for system integration with existing operations
- ❑ Ensuring consistent communication and agreement among all project stakeholders.



PROJECT FLOW



Project Stages - Initial Phases

01



Initiation

- Approval of Project Charter.
- Establishment of project scope and objectives.
- Formation of project team

02



Planning

- Detailed project scheduling and resource allocation.
- Selection and finalization of vendor contracts.
- Risk assessment and mitigation planning.

03



**Agile Sprints
(Early Phases)**

- Initial setup of AI software.
- Iterative development cycles focusing on core functionalities.
- Frequent reviews and adjustments based on feedback.



Project Stages - Final Phases

04



Agile Sprints (Later Phases) & Testing

- Completion of advanced features and integrations.
- Comprehensive testing of AI models and system functionalities.
- Addressing any identified issues or bugs.

05



Deployment

- Integration of the AI system into existing processes.
- Training employees and initiating change management processes.
- Monitoring initial performance and making necessary adjustments.

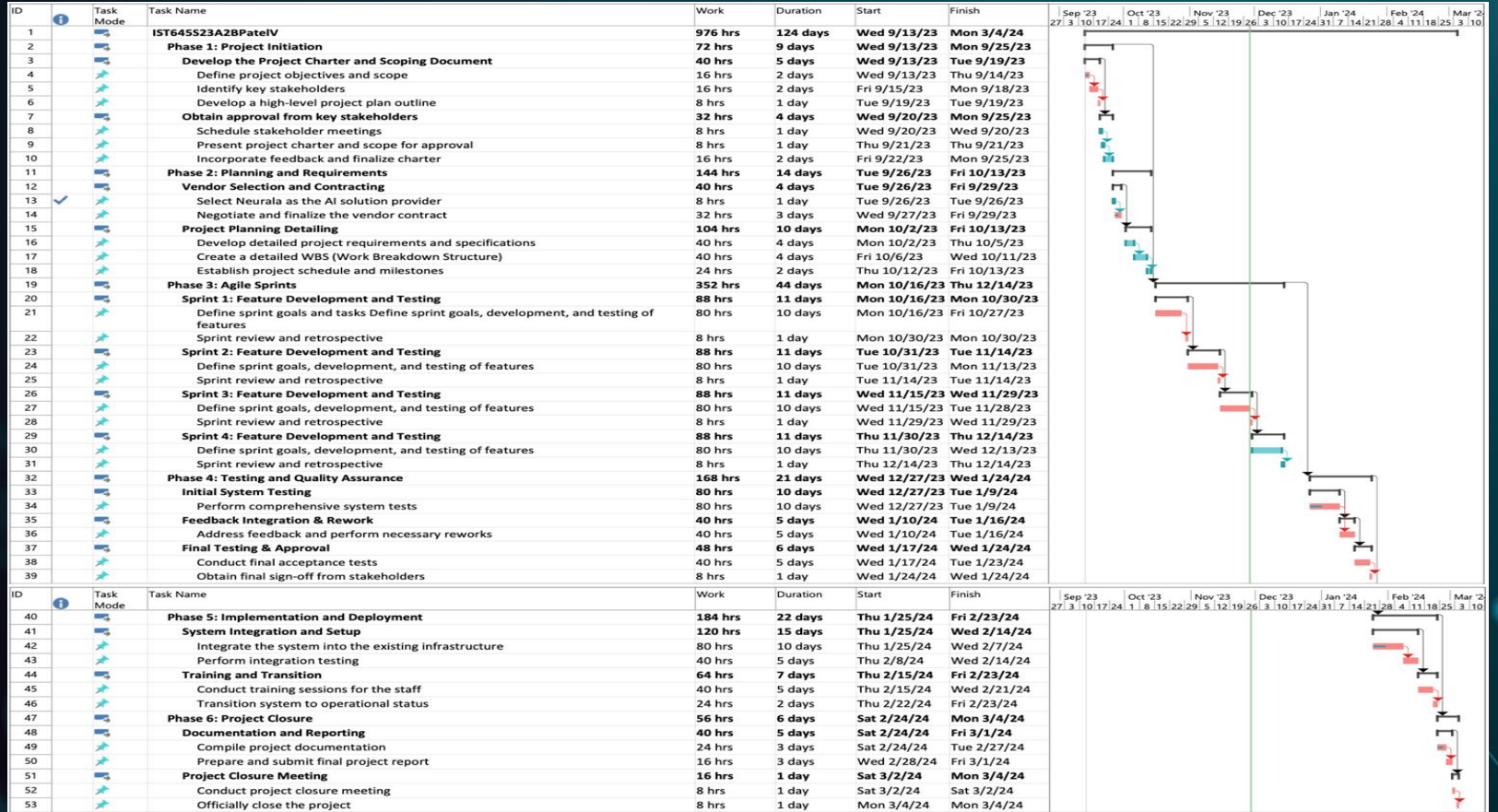
06



Closure

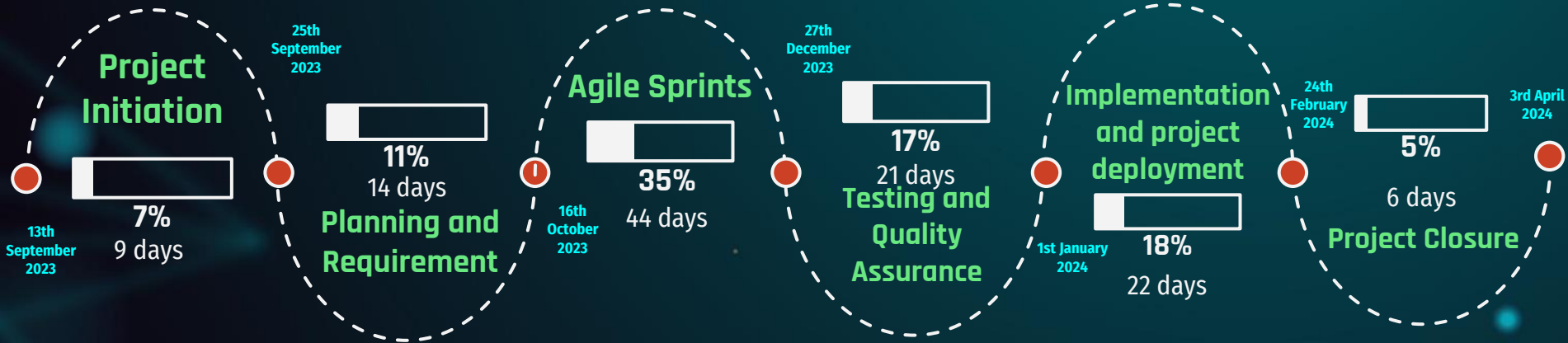
- Formal project review and evaluation of outcomes against objectives.
- Documentation of lessons learned and best practices.
- Handover of the system for ongoing operation and support.

Critical Path



Critical Path

124 days of work!



Assumptions, Constraints, and Risk Management

Assumptions	Constraints	Risk Management
We're assuming that we'll have full technical support from Neurala, that our staff will adapt quickly to technological changes , and that there will be minimal disruptions to our current operations during the transition period	We're working within a fixed budget and a tight timeline . We also acknowledge the learning curve associated with adopting new technologies and the potential resistance from employees accustomed to traditional methods.	We've identified potential risks, including technical malfunction, delays in implementation, and budget overruns . For each risk, we've developed a contingency-plan. We're committed to a proactive approach, anticipating issues before they arise, and responding effectively if they do.

Quality Assurance and Continuous Improvement

- **Standards Adherence**

We're committed to upholding the highest industry standards, and this project is no exception. We'll be conducting rigorous quality checks at every phase, ensuring that our partnership with Neurala AI enhances our reputation for excellence.

- **Feedback Loops**

We believe in the power of continuous improvement. We'll be establishing feedback loops, collecting insights from staff interacting with the Neurala AI system, and customers receiving the finished products. This feedback will inform our ongoing strategy, ensuring that we're always moving forward, not standing still.

Executive Engagement and Project Advocacy

Leadership Role

Our executives aren't just sponsors of this project; they're advocates. They're championing this technological shift, communicating its value to the entire company, and leading by example in embracing change.

Name	Position and Company	Business Function
Rachael Brown	VP Marketing, Floyd	Final Approval
Daniel Glasser	VP Client Operations, Neurala	Final product integration
Josh Oswald	Project Sponsor, Floyd	Funding
Jeffrey Fagan	Lead Product Designer, Neurala	Final design of the software
Sarah Broadwater	Customer Experience, Floyd	Customer Feedback

Conclusion: A New Chapter for Floyd Furniture

- **Reflecting on the Journey**

We're on the brink of a significant transformation, one that will redefine our company's future. This project has been a journey of discovery, learning, and growth. We've forged new partnerships, challenged old ways of thinking, and embraced innovation with open arms.

- **Looking Ahead**

The integration of Neurala AI is just the beginning. We're setting the stage for a future where technology and human ingenuity go hand in hand, pushing the boundaries of what's possible. We're not just adapting to the future; we're creating it.

The background is a dark teal color with a complex pattern of thin, light blue lines forming a network or web-like structure. Scattered throughout are numerous small, out-of-focus circles in shades of red, orange, and yellow, creating a bokeh effect. A bright, multi-colored light source is visible in the lower center, casting a soft glow.

Thank You