

# **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 Almodels
- 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



- 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.

#### Initiation

Establishing project goals, team, and scope. Formal approval of the project charter and initial resources allocation.

#### Planning

Developing detailed schedules, budget plans, and resource assignments. Finalizing vendor contracts and establishing project management frameworks.



#### Agile Sprints

Conducting iterative development cycles with regular feedback loops. Adjusting project scope and objectives based on evolving requirements.



#### Testing

Systematic testing of Al functionalities and integration points. Identifying and resolving technical issues and performance bottlenecks.



#### Deployment

Implementing the AI system within existing business processes. Training staff and managing the transition to new operational practices.



#### Closure

Conducting a final project review and evaluating success against initial goals. Documenting learnings, finalizing project reports, and transitioning to ongoing support teams.



# PROJECT FLOW





# **Project Stages - Initial Phases**



- Approval of Project Charter.
- Establishment of project scope and objectives.
- Formation of project team
- Detailed project scheduling and resource allocation.
- Selection and finalization of vendor contracts.
- Risk assessment and mitigation planning.
- Initial setup of AI software.
- Iterative development cycles focusing on core functionalities.
- Frequent reviews and adjustments based on feedback.



# Project Stages - Final Phases



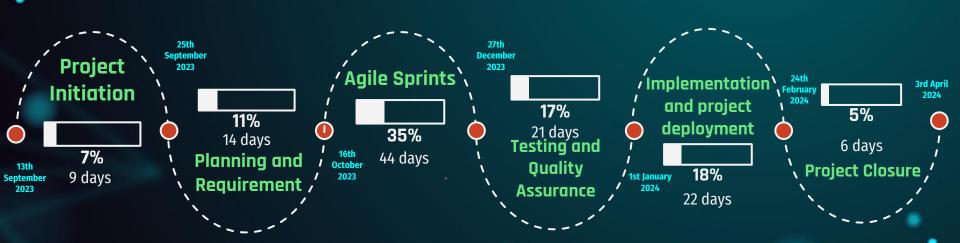
- Completion of advanced features and integrations.
- Comprehensive testing of AI models and system functionalities.
- Addressing any identified issues or bugs.

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

	_	_						
ID	0	Task Mode	Task Name	Work	Duration	Start	Finish	Sep '23 Oct '23 Nov '23 Dec '23 Jan '24 Feb '24 Mar '2 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31 7 14 21 28 4 11 18 25 3 10
1		=	IST645S23A2BPateIV	976 hrs	124 days	Wed 9/13/23	Mon 3/4/24	
2			Phase 1: Project Initiation	72 hrs	9 days	Wed 9/13/23	Mon 9/25/23	
3			Develop the Project Charter and Scoping Document	40 hrs	5 days	Wed 9/13/23	Tue 9/19/23	H
4	-	*	Define project objectives and scope	16 hrs	2 days	Wed 9/13/23	Thu 9/14/23	*
5		*	Identify key stakeholders	16 hrs	2 days	Fri 9/15/23	Mon 9/18/23	<u>*</u>
6		*	Develop a high-level project plan outline	8 hrs	1 day	Tue 9/19/23	Tue 9/19/23	T I
7			Obtain approval from key stakeholders	32 hrs	4 days	Wed 9/20/23	Mon 9/25/23	Ť
8		*	Schedule stakeholder meetings	8 hrs	1 day	Wed 9/20/23	Wed 9/20/23	The state of the s
9		*	Present project charter and scope for approval	8 hrs	1 day	Thu 9/21/23	Thu 9/21/23	The state of the s
10		*	Incorporate feedback and finalize charter	16 hrs	2 days	Fri 9/22/23	Mon 9/25/23	ii ii
11			Phase 2: Planning and Requirements	144 hrs	14 days	Tue 9/26/23	Fri 10/13/23	
12			Vendor Selection and Contracting	40 hrs	4 days	Tue 9/26/23	Fri 9/29/23	m l
13	~	*	Select Neurala as the Al solution provider	8 hrs	1 day	Tue 9/26/23	Tue 9/26/23	By Committee of the Com
14		*	Negotiate and finalize the vendor contract	32 hrs	3 days	Wed 9/27/23		
15			Project Planning Detailing	104 hrs	10 days	Mon 10/2/23		<b>+</b>
16		-	Develop detailed project requirements and specifications	40 hrs	4 days	Mon 10/2/23		
17		*	Create a detailed WBS (Work Breakdown Structure)	40 hrs	4 days	Fri 10/6/23	Wed 10/11/23	
18		*	Establish project schedule and milestones	24 hrs	2 days	Thu 10/12/23		
19		-	Phase 3: Agile Sprints	352 hrs	44 days		3 Thu 12/14/23	1
20		===	Sprint 1: Feature Development and Testing	88 hrs	11 days		Mon 10/30/23	
21		*	Define sprint goals and tasks Define sprint goals, development, and testing of features	80 hrs	10 days	Mon 10/16/23		
22		-	Sprint review and retrospective	8 hrs	1 day	Mon 10/30/23	Mon 10/30/23	-  <u>+</u>
23		===	Sprint 2: Feature Development and Testing	88 hrs	11 days		Tue 11/14/23	<del>'</del>
24			Define sprint goals, development, and testing of features	80 hrs	10 days		Mon 11/13/23	- <u>-</u>
25		-	Sprint review and retrospective	8 hrs	1 days		Tue 11/14/23	-  - <del></del>
26		=		88 hrs			Wed 11/29/23	<u></u>
			Sprint 3: Feature Development and Testing		11 days			'I
27		*	Define sprint goals, development, and testing of features	80 hrs	10 days		Tue 11/28/23	
28		*	Sprint review and retrospective	8 hrs	1 day		Wed 11/29/23	<u></u>
29		-3	Sprint 4: Feature Development and Testing	88 hrs	11 days		Thu 12/14/23	
30		*	Define sprint goals, development, and testing of features	80 hrs	10 days		Wed 12/13/23	
31		*	Sprint review and retrospective	8 hrs	1 day	Thu 12/14/23		
32		-4	Phase 4: Testing and Quality Assurance	168 hrs	21 days		3 Wed 1/24/24	
33			Initial System Testing	80 hrs	10 days	Wed 12/27/23		
34		*	Perform comprehensive system tests	80 hrs	10 days	Wed 12/27/23	Tue 1/9/24	
35		-4	Feedback Integration & Rework	40 hrs	5 days	Wed 1/10/24	Tue 1/16/24	<u></u>
36		*	Address feedback and perform necessary reworks	40 hrs	5 days	Wed 1/10/24	Tue 1/16/24	<u>*</u>
37			Final Testing & Approval	48 hrs	6 days	Wed 1/17/24	Wed 1/24/24	ř-
38		*	Conduct final acceptance tests	40 hrs	5 days	Wed 1/17/24	Tue 1/23/24	
39		*	Obtain final sign-off from stakeholders	8 hrs	1 day	Wed 1/24/24	Wed 1/24/24	Ť
ID	0	Task Mode	Task Name	Work	Duration	Start	Finish	Sep '23 Oct '23 Nov '23 Dec '23 Jan '24 Feb '24 Mar '2 27 3 10117 24 1 8 15 22 29 5 12 19 26 3 1017 24 31 7 14 21 28 4 111 18 25 3 10
40		=	Phase 5: Implementation and Deployment	184 hrs	22 days	Thu 1/25/24	Fri 2/23/24	Y T
41			System Integration and Setup	120 hrs	15 days	Thu 1/25/24	Wed 2/14/24	
42		*	Integrate the system into the existing infrastructure	80 hrs	10 days	Thu 1/25/24	Wed 2/7/24	
43		*	Perform integration testing	40 hrs	5 days	Thu 2/8/24	Wed 2/14/24	*
44		-3	Training and Transition	64 hrs	7 days	Thu 2/15/24	Fri 2/23/24	<u>*</u>
45		*	Conduct training sessions for the staff	40 hrs	5 days	Thu 2/15/24	Wed 2/21/24	
46		-	Transition system to operational status	24 hrs	2 days	Thu 2/22/24	Fri 2/23/24	
47		=	Phase 6: Project Closure	56 hrs	6 days	Sat 2/24/24	Mon 3/4/24	<u>+</u>
48		=						
48		-3	Documentation and Reporting	40 hrs	5 days	Sat 2/24/24	Fri 3/1/24	
		-	Compile project documentation	24 hrs	3 days	Sat 2/24/24	Tue 2/27/24	
50		×	Prepare and submit final project report	16 hrs	3 days	Wed 2/28/24		1
51			Project Closure Meeting	16 hrs	1 day	Sat 3/2/24	Mon 3/4/24	řŤ
52		*	Conduct project closure meeting	8 hrs	1 day	Sat 3/2/24	Sat 3/2/24	h <sub>1</sub>
53		*	Officially close the project	8 hrs	1 day	Mon 3/4/24	Mon 3/4/24	Ť

# Critical Path 124 days of work!



### Assumptions, Constraints, and Risk Management

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

