Prototype faster. Engineer with confidence.

From spoken intent to a reviewed prototype.

Move heavy processing off Eddie's laptop. Keep rapid design iteration close to the people making the decisions.

01 Describe the result in plain language.

02 Build and compare a versioned revision.

03 Release against agreed evidence.

ONE BOUNDED PROTOTYPE

Design intent
Describe one change and preserve the original.

Working revision
Build, compare and keep the evidence.

Reviewed result
Confirm the next engineering or physical test.

Character identity is awaiting Stan’s approved name record. Original source files and earlier versions are preserved.

DECISIONS TODAY: first prototype • compute path • accountable owners

Bespoke design through conversation.

Use speech where enabled, or type the same request. Every accepted revision stays traceable.

1

DESCRIBE

State the part, desired result and what must stay unchanged.

2

SCOPE

Confirm supported controls, source files and acceptance criteria.

3

BUILD

Use a branch or saved version. Implement the bounded change.

4

VERIFY

Compare before / after. Test behavior and retain the result.

5

REVIEW

Approve the revision, refine it or restore the prior version.

AN EXAMPLE JOSH CAN SAY

“For the selected source, Inside view: bring the shoulder assembly closer. Keep the original shape and texture. Show me the change and a comparison.”

Existing controls respond now. New app or model capabilities need implementation and verification; voice entry alone does not complete an arbitrary CAD edit.

Branches protect saved work. They do not reverse a physical cut, purchase, disclosure or unrecorded change.

One control desk. Two compute options.

Recommended starting point: laptop for interaction; a qualified worker for sustained jobs.

LAPTOP

Design + review

- Browser, speech or typed requests
- Visual inspection and comparison
- Job status and approved downloads

Keep it responsive; avoid sustained compute.

DEDICATED WORKSTATION

Predictable local capacity

- Top Flight hardware configuration
- Managed endpoint and allowed jobs
- Local storage and thermal headroom

Use when policy or workload favors local compute.

APPROVED CLOUD

Flexible remote capacity

- Private tenant and scoped workers
- Approved identity, region and storage
- Queues, spend limits and recovery

Use when policy permits remote processing.

Choose with a benchmark and a data decision.

Same input, settings and accepted output. Record duration, RAM / VRAM, thermals, transfer time and cost. No speedup claim before measurement.

Size the machine around the real workload.

Chris Touchberry: proposed hardware specification, assembly and hardware validation. Scope and quote to confirm.

INPUT TO CHRIS	MEASURE / RECORD	RESULT REQUIRED
Representative workload	File sizes, render / CAD / mesh tasks, concurrency	A reproducible benchmark set
Current MSI inventory	Exact model, CPU, GPU / VRAM, RAM, SSDs, OS	Verified baseline; product name is insufficient
Sustained load	Run time, utilization, peak memory, thermals	No throttling or instability at accepted load
Configuration and cost	GPU fit, RAM headroom, storage, cooling, warranty	Written configuration, quote and delivery scope
Hardware handover	Benchmark logs, drivers, burn-in, recovery options	Documented hardware acceptance

Piper IT or an approved IT provider owns endpoint setup, network policy, access, backups and operations. Top Flight's documented scope does not include customer-site IT installation.

Clear owners from idea to physical prototype.

These are the roles to confirm in the meeting; no new outside commitments have been made.

OWNER	PROPOSED RESPONSIBILITY	HANDOFF
Eddie / GO3D	Design direction, workflow, versioned software changes	Bounded brief, source references and tested revision
Stan	Product intent, priorities and stakeholder acceptance	Choose the first useful demonstration
Josh	Toolmaking / assembly input and prototype test coordination	Confirm availability, scope and employer authorization
Chris / Top Flight	Hardware configuration, assembly and validation	Qualified machine, evidence and warranty scope
Piper IT / approved IT	Identity, network, endpoint setup, storage and operations	Accepted local or cloud environment
Mike / Direct Dimensions	Proposed lead engineering oversight and technical review	Agree scope, criteria and release authority
Bill / relevant design authority	Retain ownership of source and applicable design decisions	Resolve design changes at the correct authority

Mike's intended role: guide engineering quality from source review through CAD, tolerances and test results. Confirm acceptance of the role before presenting it as staffed.

Local or cloud: prove the complete path.

Piper decides the approved environment. A public demo or an internal web page does not establish full validation.

LOCAL TARGET

Piper user → Internal app + jobs → Managed MSI worker → Internal storage

CLOUD TARGET

Piper user → Approved access → Private cloud worker → Approved storage

Approval includes speech, AI models, external assets, queues and telemetry. Disable unapproved fallback paths.

DATA + ACCESS

Identity, roles, encryption, region / boundary and project isolation.

RELIABILITY

Input limits, cancellation, retries, monitoring, restore and rollback.

ENGINEERING

Known inputs, units, geometry, tolerances and fit checks under Mike's agreed scope.

RELEASE

Named sign-off for the exact version and intended use. Manufacturing remains a separate gate.

Start bounded. Expand after it works.

The current Dragonfire pilot is an inspection path, not a complete autonomous engineering system.

DOCUMENTED TODAY

Dragonfire v0.3.0 • mesh.inspect.v1

STL / OBJ up to 32 MiB. Inspection reports include checksums, counts and bounds. Current Builder is not connected to the worker.

NEXT PILOT TO PROVE

One known file. One allowed job. One reproducible result.

Pair the actual worker, run from the approved client, retrieve the report and demonstrate cancel / recovery.

A • FREEZE

Agree input, task and pass criteria.

B • MEASURE

Benchmark local and remote options.

C • CONNECT

Prove the controlled job end to end.

D • REVIEW

Mike reviews technical evidence; owners sign scope.

Piper installation, security sign-off, end-to-end worker integration and manufacturing approval remain to be established.

Agree the first win and name its owners.

Suggested 25-minute working session for Stan, Josh and Eddie; invite technical owners for the decisions they control.

TIME	DISCUSS	WRITE DOWN
0–5 min	First useful prototype and live source review	One deliverable; what success looks like
5–10 min	Local workstation, approved cloud or hybrid	Data boundary and first benchmark workload
10–15 min	Chris, Mike, Piper IT and Josh handoffs	Accepted scopes, availability and decision authority
15–20 min	Test evidence and limits	Functional, security and engineering pass criteria
20–25 min	Immediate next actions	One owner per action; next review date

OPEN DURING THE MEETING

Live prototype | **Bill-Builder** | **Training + deployment PDF** | **Contact GO3D**