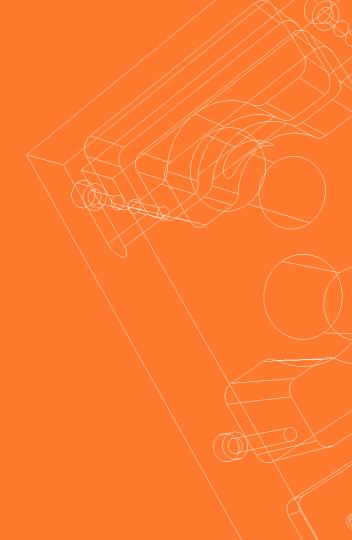


Paperless Parts

Company Overview

PRESENTED BY JASON RAY, CEO





About Jason Ray







US Navy OCS



Contracting Officer



Additive Manufacturing and Innovation Officer



Series B Funding OpenView

Trinity
College
Economics/
History



Minesweeper USS Warrior (MCM 10)



Babson College MBA



Started
Paperless
Parts 2017



100+% Y/Y Growth with 150 Employees





Enter Paperless Parts

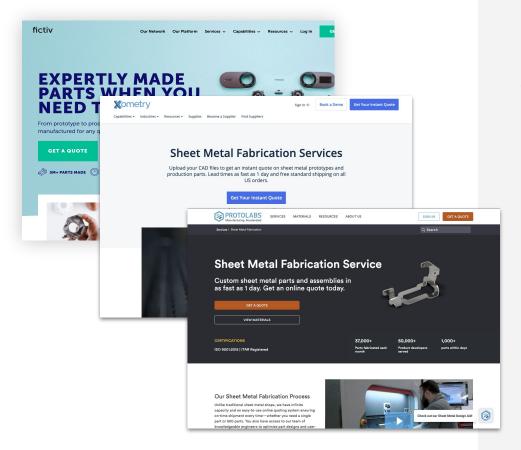
ABOUT PAPERLESS PARTS

Paperless Parts is a secure, ITAR registered and compliant cloud-based software platform that automates and streamlines the quoting process for custom part manufacturers.

WE STARTED IN A JOB SHOP

Our team has spent time in hundreds of manufacturing operations: from the smallest one-person job shop, to high-volume production operations doing \$100M contracts. We've spoken with thousands of owners and operators, analyzed millions of parts files, and supported hundreds of millions of dollars in orders.





Part buyers are being trained to expect a fast digital quoting and buying experience.

QUOTES IN HOURS

Customers get digital quotes in hours, and can instantly check out online

PARTS IN DAYS

Quickturn prototype and short run production jobs turned around in 3-5 days

24/7 LIVE CUSTOMER SUPPORT

Customers can speak with a sales engineer any time of day

Manufacturing Today

SKILLS GAP

Only a few people have the expertise and memory of past jobs.

MATERIAL AVAILABILITY AND PRICING

Causes bottlenecks and inconsistency in profitability.

TECHNOLOGY GAP

No digital thread and all parties reading off different sheets of music.

OVER-ENGINEERED

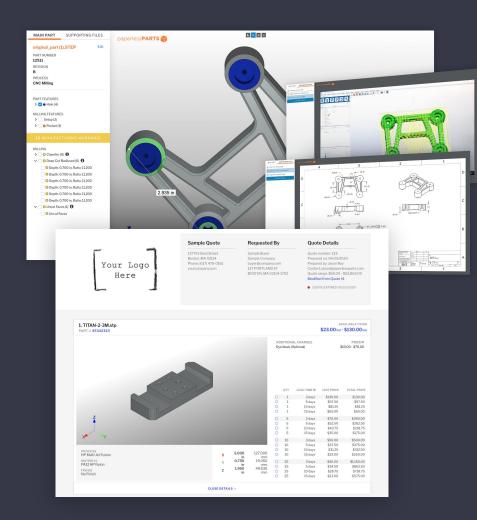
Increasingly complex parts are pressurizing an overly challenged supply chain.





The future of manufacturing is here.

paperlessPARTS 📦



Paperless Parts is a secure, cloud-based quoting platform that helps manufacturers:

- Quote faster and more accurately
- Communicate securely and effectively
- Capture and analyze sales and quoting data

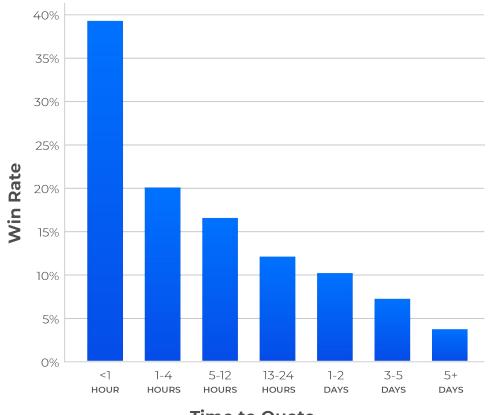
paperlessPARTS 📦



Shops that quote faster will win more jobs.

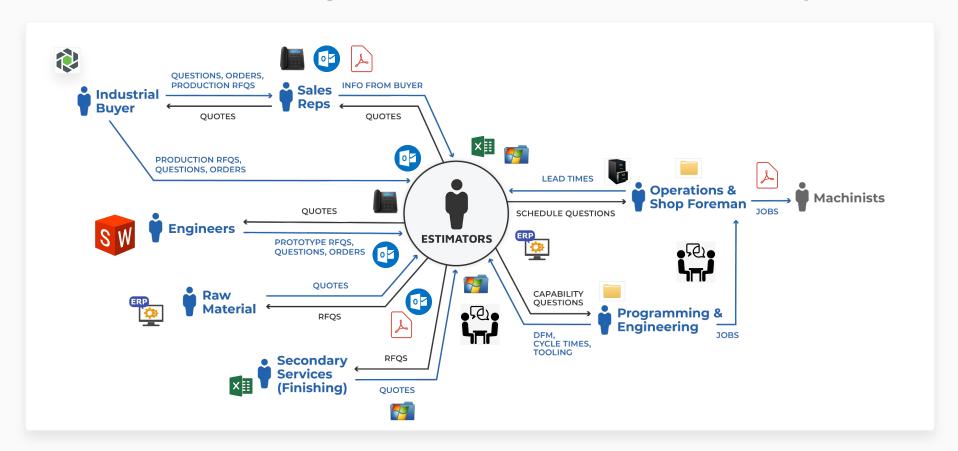
On top of winning more work, you'll spend more time being productive.



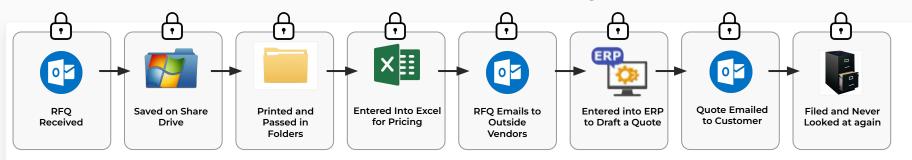


Time to Quote

Chaos and Fragmented Communication in Estimating



Silos of Information from RFQ to Cash

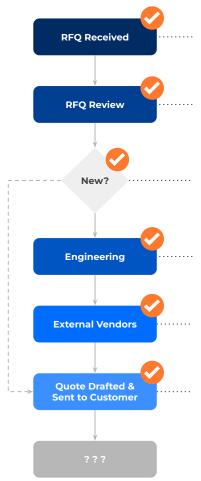


Each time you break the digital thread you are creating unnecessary risk and inefficiency in your shop.

- Lose track of a really important quote because files are printed and prioritized by stacks of paper
- Increased risk of quoting or making the wrong part that causes return merchandise authorization (RMAs)
- Miss an engineering revision because it was communicated in a silo and you lack a system that stores data in the same places

Paperless Parts Solves Problems at Every Step of Quote-to-Cash

We enable streamlined, secure, and searchable communication



The Smart RFQ automatically drafts quotes from your website. The centralized quoting process means you never miss a quote.

> SMART RFQ FORM, QUOTING QUEUE

Paperless Viewer lets you review all file formats without native CAD software. Leverage configurable DFM feedback to determine if you should even start quoting a job.

> PART VIEWER WITH CONFIGURABLE DEM

Geometric search lets you know when you've made exact and similar parts in the past, and helps you catch customer mistakes in part numbering and revs.

> GEOMETRIC PART MATCHING

The geometric pricing engine reduces engineering time spent on quotes, and gets less experienced people involved in the quoting process (with guardrails for training).

> PAPERLESS PARTS PRICING LANGUAGE (P3L), GEOMETRIC PRICING ENGINE

Securely communicate with outside vendors, and dial in vendor pricing so you never have to request a quote again.

> SECURE COMMUNICATION AND FILE SHARING

Digital quote with a variety of purchase options to maximize price a buyer is willing to pay Track how and when your customers interact with your quotes

> DIGITAL QUOTE WITH MULTIPLE QUANTITIES AND EXPEDITES



Geometric Attributes

Paperless Parts detects more than **62 different geometric attributes** in the 3D CAD model that can be used in the creation of your sheet metal pricing formulas.

Attribute	Description		units	units		
bend_count	Count of bends		n/a	n/a		
thickness	Thickness of sheet metal part		mm	in		
size_x	X dimension of the unfolded sh	neet metal part	mm	in		
size_y	Feedback Reference					
total_cut_length	Name	Level	Properties (short de	scription)		
pierce_count	captive_part	complete_exclusion	n/a			
	close_countersink_bores	manufacturing_issue	acturing_issue dist, distance_ratio (traversal/thickness)			
punch_single_hit_cut_l	close_cutouts				- C	
	countersink_bore_to_edge	Feature Reference				
punch_multi_hit_cut_le	curl near bend	Name	Properties			
	cut_near_bend	bend	area, angle, length, k_factor, radius			
punch_single_hit_setup	cutout to edge	bend_relief area, width, length				
punch_single_hit_count		curl	area, angle, length, k_factor, radius			
counter_sink_setups	different_bend_directions	counterbore	area, depth, diameter, volume			
	hem_near_bend	countersink	area, depth, major_diameter, minor_diameter, semi_angle, volume			
counter_sink_count	large_bend_radius	cutout_feature	area, cut_length, requires_piercing			
counter_bore_setups	machining_required	drilled_hole	area, depth, diameter, volume			
counter_bore_count	neg_bend_allowance	embossment	area, depth			
	no_bend_relief	offset	area, angle, length, offset_height, k_factor, radius			
simple_drilled_hole_se	no_corner_relief	open_hem	area, angle, length, k_factor, radius			
simple_drilled_hole_co	non_standard_bend_angle	punch_multi_hit_feature	area, cut_length			
total_hole_setups	shallow_bend_relief	punch_single_hit_feature	area, cut_length			
total_hole_count	short_bend	tear_drop	area, angle, length, k_factor, radius			
	short_hem_return		,,,,,	,		
	small_bend_radius	Feedback Reference				
	small_cut	Name	Level		Properties (short description)	
	small_radius	captive_part	complete_exclusion		n/a	
	thin_bend_relief	close_countersink_bores	manufacturing_issue		dist, distance_ratio (traversal/thickne	ess)
	tight_curl	close_cutouts	manufacturing_issue		dist, distance_ratio (traversal/thickne	ess)
		countersink_bore_to_edge	manufacturing_issue		dist, distance_ratio (traversal/thickne	ess)
		5-				

manufacturing issue

manufacturing_issue

manufacturing issue

dist, distance ratio (traversal/thickness)

dist, distance_ratio (traversal/thickness)

dist, distance ratio (traversal/thickness)

curl near bend

cut near bend

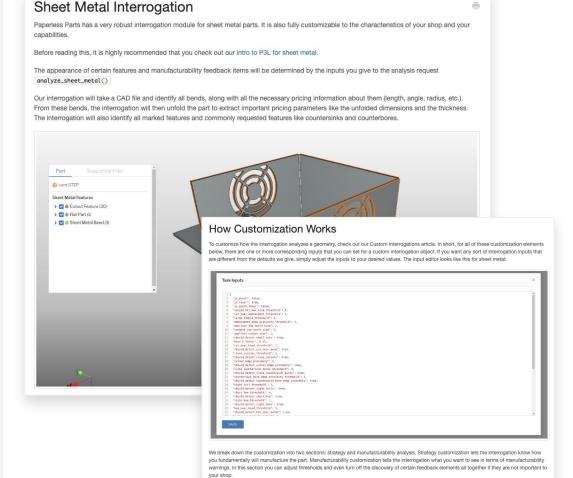
cutout to edge



Configurable Manufacturability Warnings

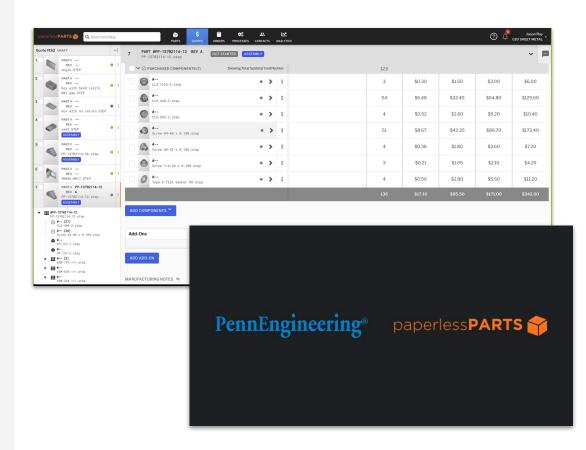
Paperless Parts offers **25 configurable manufacturability**

checks driven from the 3D CAD model to make sure you never miss a design issue.



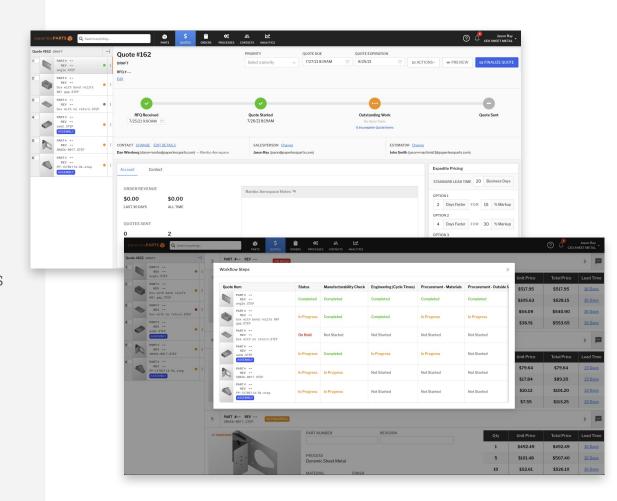
Automate Purchased Component Pricing

Paperless Parts automatically identifies and pulls in purchased component pricing from your vendors or historical information.



Customizable Workflow Management

Paperless Parts offers teams the ability to create custom workflows for their estimating process to **ensure that no steps are missed**.



Why Automate?

The benefits are **simple.**

There is a new generation of part buyers with different demands and expectations.

- Faster Quotes = Higher Win Rates
- Reduced Quoting Costs = Higher Profitability
- Higher Quote Volume = More Revenue
- Consistent Pricing = Stability
- Reduced human Error = Predictability

The Perfect Compliment For Your ERP System



SALES OPERATIONS



Quote Faster. Win More.

HUNDREDS OF FABRICATORS ACROSS THE COUNTRY TRUST PAPERLESS PARTS.

"Trust in the Paperless Parts quoting software has been transformative, the more information we have up front, the more we can speed up the process – and when you wear a lot of hats, it makes the biggest difference for your business."

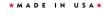
PETER MARCOUX

Estimating and Sales Manager Century Ty-Wood Manufacturing



























Do More With Modern Software.

SHEET METAL FABRICATION SHOPS SWEAR BY IT.





CENTRALIZED QUOTING PROCESS

Never miss an opportunity



MANUFACTURABILITY WARNINGS

Reduce human errors



GEOMETRY DRIVEN QUOTING

Fast and accurate quotes



SMART RFQ FORM

Reduce friction for your customers



ONLINE COLLABORATION

Chat with your team, vendors and customers



DIGITAL QUOTE & PAYMENTS

Create a seamless customer experience



CAD VIEWING

View all CAD formats



ITAR COMPLIANT SECURITY

Ensure data is secure



Modernize Your Shop. Grow Your Business.

Streamline the quoting process, amplify your digital presence, and manage customer communication with the secure platform build to help you grow your business.

Learn more at **paperlessparts.com**Contact me directly **jason@paperlessparts.com**

