Applicant Names: [Full names of each applicant, alphabetical order by last name on one line] Title of project: [Full title of project]

Mentor Name: [Full mentor name and their title]

Receipt Report

Summary Table

	Original					Fi	nal			Original	Final	
Last name	Mat /	Outso		Non- Stipen	Mat / Supp	Outso	Travel	Non- Stipen d Final	Stipen		Total	Differe
first name		urce		d Total		Final	Final		d Total	Total	Final	nce
Member Name 1	\$2603	\$0	\$267	\$2870	\$2446	\$0	\$267	\$2713	\$1350	\$4220	\$4063	-\$157
If travel is	included	, please	provide	dates of	travel: 4/	′1/2017 -	4/2/17	(Honolu	lu – Kon	a)		
Member Name 2	\$1658	\$0	\$267	\$1925	\$1532	\$0	\$267	\$1799	\$1800	\$3725	\$3599	-\$126
If travel is	included	, please	provide	dates of	travel: 4/	1/2017 -	- 4/2/17	(Honolu	lu – Kon	ia)		
Member Name 3	\$200	\$0	\$267	\$467	\$162	\$0	\$267	\$429	\$1350	\$1817	\$1779	-\$38
If travel is	included	, please	provide	dates of	travel: 4/	1/2017 -	4/2/17	(Honolu	lu – Kon	a)		

Group Budget

GIUU	ւր ոս	U						
Rec	Item	Item Name	QTY	CPU	Cost	Justification	Actual	Differences w/
#	#						Cost	Explanation
Mate	rials/S	Supplies						
1	1	Carbon Fiber	100	\$16.00	\$1600	Needed to create multiple	\$1408	-\$192
		Prereg-plain				thickness body panels for		Received
		Weave	`			research. Unit price includes		company's
						discount from current		sponsorship
						sponsor.		
2	2	Core	6	\$118.40	\$710.40	Needed to create body	\$690.82	-\$19.58
		Material				panels for research.		Received
								company's
								sponsorship
3-9	3	MDF	6	\$35.98	\$215.88	Manufacturing period for	\$270.01	+\$54.13
						carbon fiber composite mold		Mold required
						and body.		more wood than
								expected
10-	4	High	6	\$138.50	\$831	Manufacturing period for	\$553.40	-\$277.6
11		Density A/B				carbon fiber composite mold		Received
		Liquid Foam				and body.		company's
								sponsorship
12	5	Chop Mat	30	\$7.81	\$234.30	Manufacturing period for	\$220.21	-\$14.09

Applicant Names: [Full names of each applicant, alphabetical order by last name on one line]
Title of project: [Full title of project]
Mentor Name: [Full mentor name and their title]

and body. and body. sponsorship sponsorship sponsorship sponsorship sponsorship sponsorship sponsorship sponsorship spo			Fiberglass				carbon fiber composite mold		Received
Seponsorship Sponsorship			1 locigiuss				_		
Second Private Seco							and body.		_ ~ ~
carbon fiber composite body late of (Bondo) 14	13	6	Enovy Recin	1	\$181.30	\$181.30	Needed to create mold for	\$180.84	
due to taxes A	13	U	Lpoxy Resin	1	φ101.50	φ101.50		φ107.04	· ·
14- 7 Body Filler (Bondo) 5 \$15.50 \$157.50 Needed to create mold for carbon fiber composite body \$177.96 \$20.46 Cheaper than expected \$48.7 Ended up needing less product than expected \$48.7 Ended up needing less product than expected \$19 9 Woven \$30 \$3.24 \$97.20 Needed to create mold for carbon fiber composite body \$282.72 \$185.52 Price change and only able to buy rolls, not by length \$10 Brushes \$1 \$42 \$42 Needed to create mold for carbon fiber composite body \$11 \$11 Resin \$1 \$42 \$42 Needed to create mold for carbon fiber composite body \$11 \$11 Resin \$1 \$12.5 \$81.25 Needed to create mold for carbon fiber composite body \$11 \$12 \$13.83 \$1							carbon fiber composite body		
Cheaper than expected	1.4	7	Pody Filler	5	\$21.50	\$157.50	Needed to greate mold for	\$177.06	
Surfacing Primer		/	_	5	φ31.30	\$137.30		\$177.90	· ·
Surfacing Primer 1 \$79.38 \$79.38 Needed to create mold for carbon fiber composite body Surfacing Primer 1 \$79.38 \$79.38 Needed to create mold for carbon fiber composite body Surfacing	10		(Bolluo)				carbon fiber composite body		_
Primer Carbon fiber composite body Rended up needing less product than expected septent septent septent septent septent septent than expected septent se	17	0	Cymfoeine	1	¢70.29	¢70.29	Needed to areate mold for	\$20.69	1
Part	1 /	0		1	\$19.30	\$19.30		\$30.08	· ·
product than expected 19 9 Woven Fiberglass Solution of the product than expected 10 9 Woven Fiberglass Solution of the product than expected Solution of the product than expected Solution of the product than expected Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price change and only able to buy rolls, not by length Solution of the price			Primer				carbon fiber composite body		-
Sepected									
Solution									<u>+</u>
Fiberglass Fiberglass Carbon fiber composite body Price change and only able to buy rolls, not by length	10	0	***	20	Ф2 2 4	¢07.20	N. 1.1.	¢202.72	
only able to buy rolls, not by length N/ 10 Brushes 1 \$42 \$42 Needed to create mold for carbon fiber composite body 1 11 Resin Catalyst \$81.25 \$81.25 Needed to create mold for carbon fiber composite body \$85.08 \$43.83 Price increased due to tax \$4230 \$3909 \$321 Travel 20 12 Airfare HNL- KOA 4/1- 4/2 \$130 \$190 \$570 \$17 avel to Kona in order to enter completed vehicle in annual human powered vehicle race vehicle race \$462 \$180 \$1	19	9		30	\$3.24	\$97.20		\$282.72	
N/			Fibergiass				carbon fiber composite body		<u> </u>
N/ A 10 Brushes 1 \$42 \$42 Needed to create mold for carbon fiber composite body S0 \$42 Did not end up needing as they were available on campus 1									
Carbon fiber composite body Carbon fiber composite body Did not end up needing as they were available on campus 1	NT/	1.0	D 1	1	Φ.4 0	¢ 40	N. 1.1.	CO	
Resin Sal.25 Sal.25 Needed to create mold for carbon fiber composite body Sal.25 Price increased due to tax		10	Brusnes	1	\$42	\$42		\$0	·
were available on campus 1	Α						carbon fiber composite body		
Session Sess									
1 Resin Catalyst S81.25 Needed to create mold for carbon fiber composite body S85.08 +\$3.83 Price increased due to tax									
Catalyst supplies Total s4230 s3909 s321 Travel 20 12 Airfare HNL- KOA 4/1- 4/2 4/1- 4/2 4/1- 4/2 5/1- 4/	1	1.1	D :	1	Φ01. 2 5	001.05	110	Φ0 7 .00	-
Materials/Supplies Total \$4230 \$3909 -\$321 Travel 20 12 Airfare HNL- KOA 4/1- 4/2 8462 Flat rate, no change Flat rate, no	1	11		1	\$81.25	\$81.25		\$85.08	•
Materials/Supplies Total \$4230 \$3909 -\$321 Travel 20 12 Airfare HNL- KOA 4/1- 4/2 8462 Flat rate, no change which is a coording to federal allowable rates. Travel Total \$1032 \$1032 S190			Catalyst				carbon fiber composite body		
Travel Total Stipend Subtotal Airfare HNL- KOA A/1- 4/2 Stipend Group Member 1 S190 \$570 Travel to Kona in order to enter completed vehicle in annual human powered vehicle race Travel Total S190 \$570 Travel to Kona in order to enter completed vehicle in annual human powered vehicle race Per diem for 2 days of travel for all three group members according to federal allowable rates. S1032 Stipend Subtotal S5262 Stipend Group hours Manufacturing period for carbon fiber composite mold and body. S1350 No Change Manufacturing period for carbon fiber composite mold and body.						† 100 0		\$2 000	
20			Supplies Total			\$4230		\$3909	-\$321
HNL- KOA 4/1- 4/2 m/a 13 M&IE 6 \$77 \$462 Per diem for 2 days of travel for all three group members according to federal allowable rates. Travel Total \$1032 \$1032 No Change Non-Stipend Subtotal \$5262 \$4941 -\$321 m/a 12 Stipend Group hours Member 1 \$1350 Manufacturing period for carbon fiber composite mold and body.			T	1-	1	I		T	L -
annual human powered vehicle race n/a 13 M&IE 6 \$77 \$462 Per diem for 2 days of travel for all three group members according to federal allowable rates. Travel Total \$1032 \$1032 No Change Non-Stipend Subtotal \$5262 \$4941 -\$321 n/a 12 Stipend Group hours Member 1 \$1350 Manufacturing period for carbon fiber composite mold and body.	20	12		3	\$190	\$570		\$570	No change
vehicle race Name Stipend Sti									
Non-Stipend Subtotal Stipend Group Stopend Submore Stipend Group Stopend Submore Stopend S			4/1- 4/2				_		
travel for all three group members according to federal allowable rates. Travel Total \$1032 \$1032 No Change Non-Stipend Subtotal \$5262 \$4941 -\$321									
members according to federal allowable rates. Fravel Total \$1032 \$1032 No Change \$1032 Non-Stipend Subtotal \$5262 \$4941 -\$321	n/a	13	M&IE	6	\$77	\$462	•	\$462	Flat rate, no change
Fravel Total \$1032 \$1032 No Change Non-Stipend Subtotal \$5262 \$4941 -\$321 Non-Stipend Group hours Member 1 Stipend federal allowable rates. \$1032 No Change \$4941 -\$321 Manufacturing period for carbon fiber composite mold and body. \$1350 No Change							0 1		
rates. Travel Total \$1032 \$1032 No Change Non-Stipend Subtotal \$5262 \$4941 -\$321 Name									
Travel Total \$1032 No Change Non-Stipend Subtotal \$5262 \$4941 -\$321 n/a 12 Stipend Group Hours Stipend									
Non-Stipend Subtotal \$5262 \$4941 -\$321 n/a 12							rates.		
n/a 12 Stipend 90 \$15 \$1350 Manufacturing period for carbon fiber composite mold and body. No Change No Change Stipend						*		1	
Group hours carbon fiber composite mold and body.	Non-			1	•	*			·
Member 1 and body.	n/a	12	_	90	\$15	\$1350		\$1350	No Change
			-	hours			1		
2/6/17-							and body.		
			2/6/17-						
4/17/17			4/17/17						
	n/a	12	Stipend	120	\$15	\$1800		\$1800	No Change
Group hours carbon fiber composite mold			Group	hours			carbon fiber composite mold		

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Title of project: [Full title of project]
Mentor Name: [Full mentor name and their title]

		Member 2 2/6/17- 4/17/17				and body.		
n/a	12		90 hours	\$15		Manufacturing period for carbon fiber composite mold and body.	\$1350	No Change
Stipe	nd To	otal			\$4500		\$4500	\$0 No Change
Total					\$9762		\$9441	-\$321



Applicant Names: [Full names of each applicant, alphabetical order by last name on one line]

Title of project: [Full title of project]

Mentor Name: [Full mentor name and their title]

Group member #1 budget w/ unspent funds

		mber #1 budget w/ ul			<u> </u>	T	T	D:00
Rec	Item	Item Name	QTY	CPU	Cost	Justification	Actual	Differences w/
#	#						Cost	Explanation
Mate	ials/	Supplies						
1	1	Carbon Fiber	100	\$16.00	\$1600	Needed to create	\$1408	-\$192
		Prereg- plain				multiple thickness body		Received
		Weave				panels for research.		company's
						Unit price includes		sponsorship
						discount from current		
						sponsor.		
2	2	Core Material	6	\$118.40	\$710.40	Needed to create body	\$690.82	-\$19.58
						panels for research.		Received
								company's
								sponsorship
3-9	3	MDF	6	\$35.98	\$215.88	Needed to create mold	\$270.01	+\$54.13
						for carbon fiber		Mold required
						composite body		more wood than
								expected
Mate	ials/	Supplies Subtotal	1		\$2603		\$2446	-\$157
Trave		- 11			•			
16	12	Airfare HNL- KOA	1	\$190	\$190	Travel to Kona in	\$190	No change
		4/1- 4/2				order to enter		
				,		completed vehicle in		
						annual human		
						powered vehicle race		
n/a	13	M&IE	2	\$77		Per diem for 2 days of	\$154	Flat rate, no
			days			travel for all three		change
						group members		
						according to federal		
						allowable rates.		
Trave	1 Sul	ototal			\$267		\$267	No change
		nd Total			\$2870		\$2713	-\$157
n/a	12	Group Member #1	90	\$15	\$1350	Manufacturing period	\$1350	No Change
	[_	Stipend 2/6/17-	hours	l '	71223	for carbon fiber	, 1000	
		4/17/17	110015			composite mold and		
		1/ 1/ 1/				body.		
Total	1				\$4220	J ·	\$4063	-\$157
1 Otal					y 1220		Ψ 1003	ΨΙΟΙ

Stipend Table Group Member 1

Date Range	Hours	Tasks
2/6/17-3/6/17	45 (11.5 hours/week)	After researching and formulating the functional requirements
		of the device, I began the molding of the frame.
3/6/17-4/6/17	`	During this period, I continued to manufacture and the carbon fiber composite mold and body. I also tested the device by
		assisting in load calculations and testing the baseline rigidity of the steel frame to ensure its security.

Applicant Names: [Full names of each applicant, alphabetical order by last name on one line]

Title of project: [Full title of project]

Mentor Name: [Full mentor name and their title]

Group member #2 Budget w/ unspent funds

Rec#	Item	Item Name	QTY	CPU	Cost	Justification	Actual	Differences w/
	#						Cost	Explanation
Materi	ials/S	Supplies						
2,10	4	High Density	6	\$138.50	\$831	Needed to create	\$553.40	-\$277.6
		Liquid Foam				mold for carbon		Received company's
						fiber composite body		sponsorship
11	5	Chop Mat	7.81	\$30	\$234.30	Needed to create	220.21	-\$14.09
		Fiberglass				mold for carbon		Received company's
						fiber composite body		sponsorship
1	6	Epoxy Resin	1	\$181.30	\$181.30	Needed to create	\$189.84	+\$8.54
						mold for carbon		Price increased due
						fiber composite body		to taxes
12-14	7	Body Filler	5	\$31.50	\$157.50	Needed to create	177.96	-\$20.46
		(Bondo)				mold for carbon		Cheaper than
						fiber composite body		expected
15	8	Surfacing Primer	1	\$79.38	\$79.38	Needed to create	30.68	-\$48.7
				ľ		mold for carbon		Ended up needing
						fiber composite body		less product than
								expected
15	9	Woven Fiberglass	30	\$3.24	\$97.20	Needed to create	\$282.72	+\$185.52
					77.1	mold for carbon	1	Price change and
						fiber composite body		only able to buy
						neer composite cour		rolls, not by length
Materi	ials/S	Supplies Subtotal	ı		\$1658		\$1532	-\$126
Travel		T I					11 2 2	
16		Airfare HNL-	1	\$190	\$190	Travel to Kona in	\$190	No change
		KOA 4/1-4/2		4270	4200	order to enter	4 2 3 3	i vo omango
		11011 111 112				completed vehicle in		
						annual human		
						powered vehicle race		
n/a	13	M&IE	2	\$77	\$154	Per diem for 2 days of	\$154	Flat rate, no
11, 4	10	THE TENE	days	,	Ψ10.	travel for all three	ψ13·	change
						group members		
						according to federal		
						allowable rates.		
Travel	Sub	total			\$267	allo waoto rates.	\$267	
		nd Total			\$1925		\$1799	-\$126
		Stipend Group	120		\$1800	Manufacturing period	\$1800	No Change
11/ α	12	Member 2 2/6/17-	hours		Ψ1000	for carbon fiber	Ψ1000	10 Change
		4/17/17	nours			composite mold and		
		7/1//1/				body.		
Total					\$3725	oouy.	\$3599	-\$126
1 Otal					ψ3123		ψ3373	-ψ120

Applicant Names: [Full names of each applicant, alphabetical order by last name on one line]
Title of project: [Full title of project]
Mentor Name: [Full mentor name and their title]

Stipend Table Group Member 2

Date Range	Hours	Tasks
2/6/17-3/6/17	60 (15 hours/week)	After researching and formulating the functional requirements of the device, I began the molding of the frame. I also determined loads experienced in the event of a vehicle crash, tested load application, and overall FEA of vehicle
3/6/17-4/6/17	60 (15 hours/week)	After the vehicle was manufactured, I was responsible for testing of manufactured the body by way of many weighted torsional tests.



Applicant Names: [Full names of each applicant, alphabetical order by last name on one line]

Title of project: [Full title of project]

Mentor Name: [Full mentor name and their title]

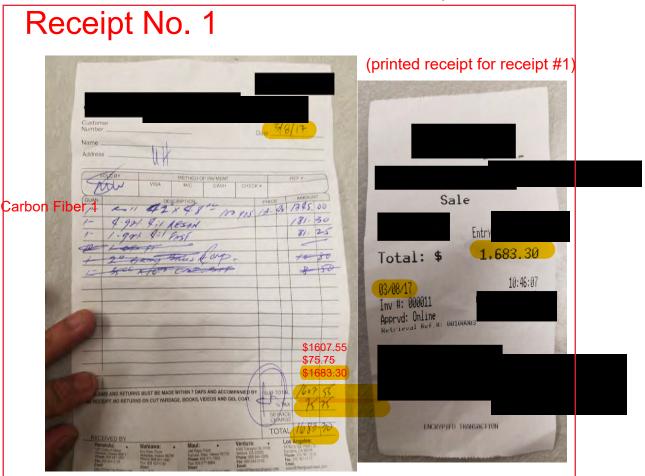
Group member #3 Budget w/ unspent funds

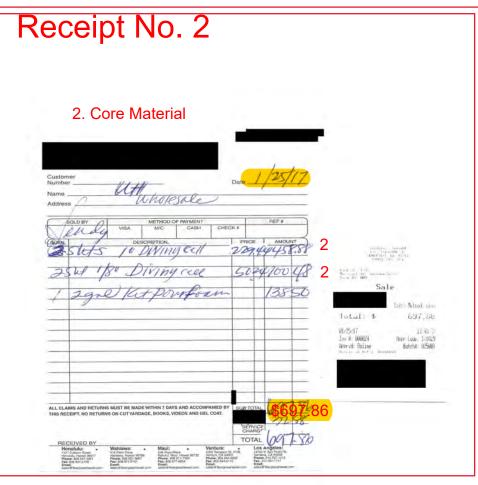
Rec #	Item #	Item Name	QTY.	CPU	Cost	Justification	Actual Cost	Differences w/ Explanation
Mater	ials/Su	pplies						
N/ A	10	Brushes	1	\$42	\$42	Needed to create mold for carbon fiber composite body	0	-\$42 Did not end up needing as they were available on campus
1	11	Resin Catalyst	1	\$81.25		Needed to create mold for carbon fiber composite body	\$85.08	+\$3.83 Price increased due to tax
		pplies Subtotal			\$123.25	5	\$85.08	-\$38.17
Trave								
16	12	Airfare HNL- KOA 4/1-4/2			\$190	Travel to Kona in order to enter completed vehicle in annual human powered vehicle race	\$190	No change
n/a	13	M&IE	2 days	\$77	\$154	Per diem for 2 days of travel for all three group members according to federal allowable rates.	\$154	Flat rate, no change
Trave	1 Subto	otal	•		\$67		\$267	No Change
Non S	Stipend	Total			\$467		\$429	-\$38
n/a	12	Group member 3 2/6/17- 4/17/17	90 hours	\$15	\$1350	Manufacturing period for carbon fiber composite mold and body.	\$1350	No Change
		Total			\$1817		\$1779	-\$38

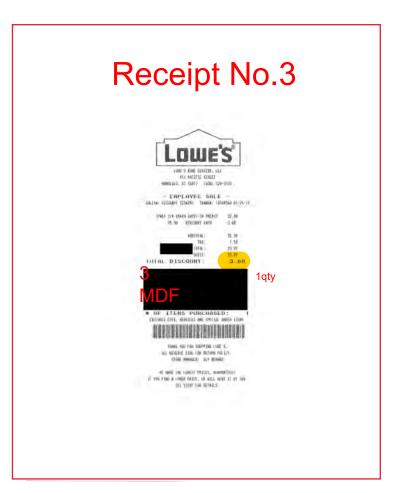
Stipend Table Group Member 3

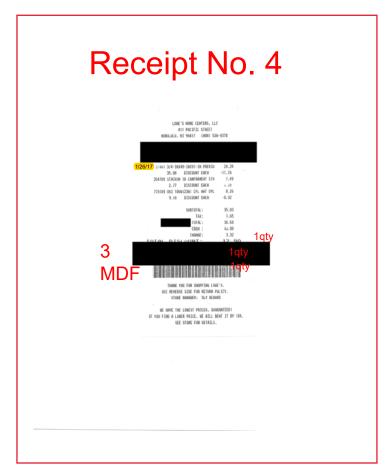
_ 1		
Date Range	Hours	Tasks
2/6/17-3/6/17	45 (11.5 hours/week)	After researching and formulating the functional requirements
		of the device, I began the molding of the frame. I was
		specifically responsible for the manufacturing of fiberglass-
		epoxy mold, and carbon fiber composite sandwich panels.
3/6/17-4/6/17	45 (11.5 hours/week)	During this period, I continued to manufacture and the carbon
		fiber composite mold and body

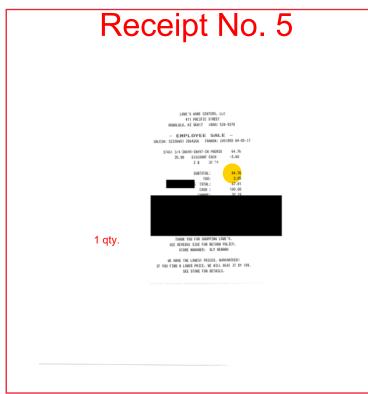
**Item numbers correspond to item numbers in receipt report

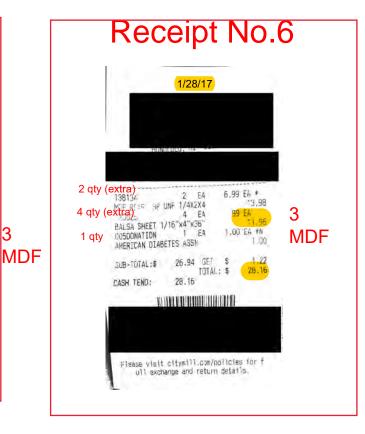


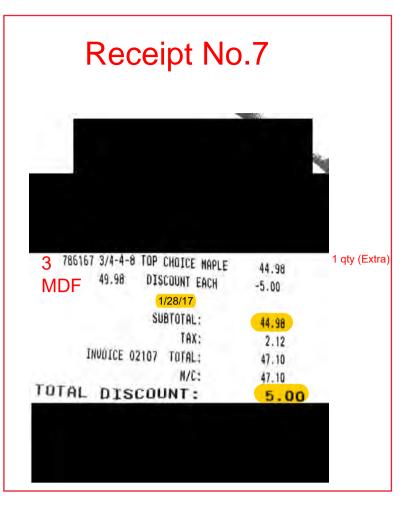




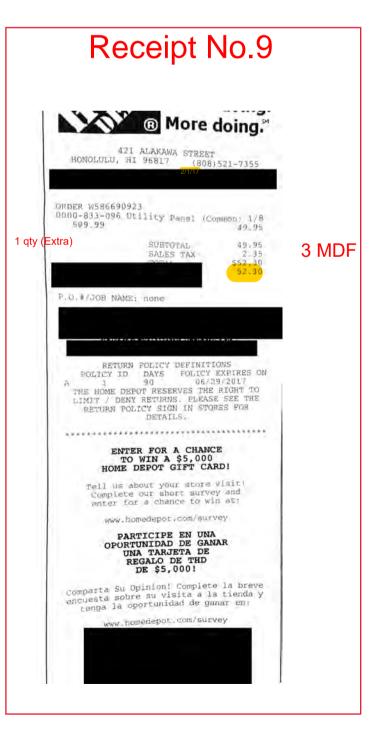


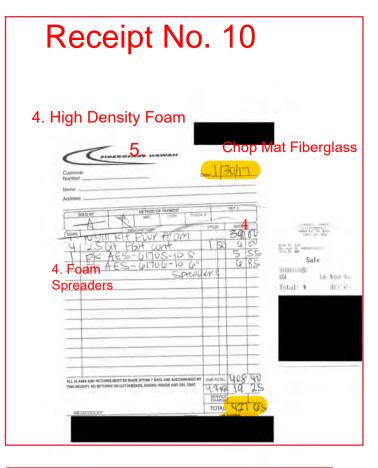


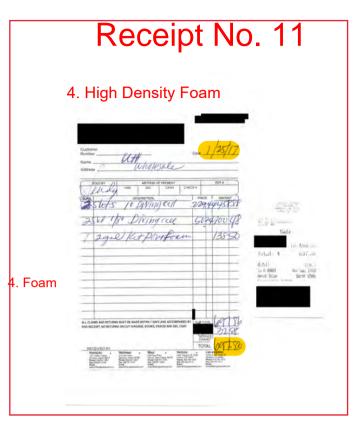


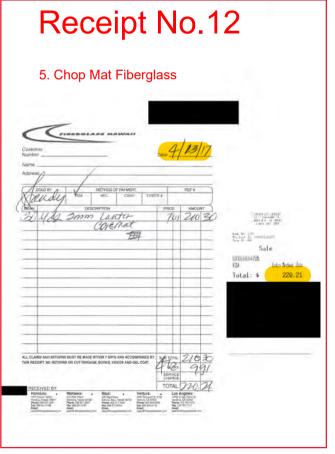


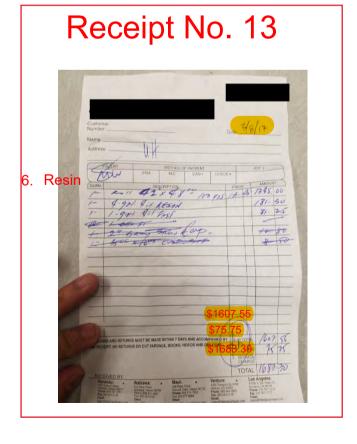




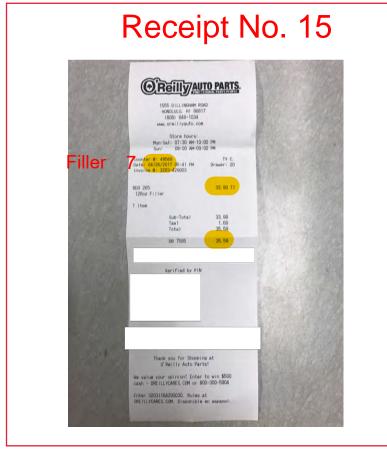




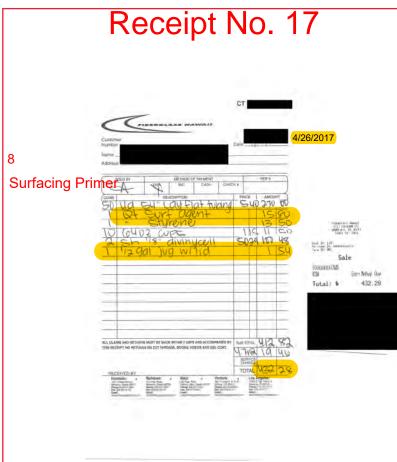


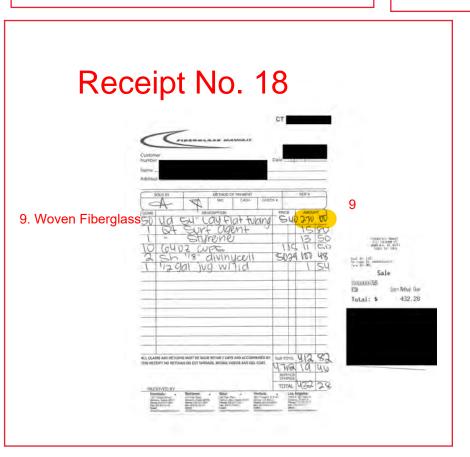


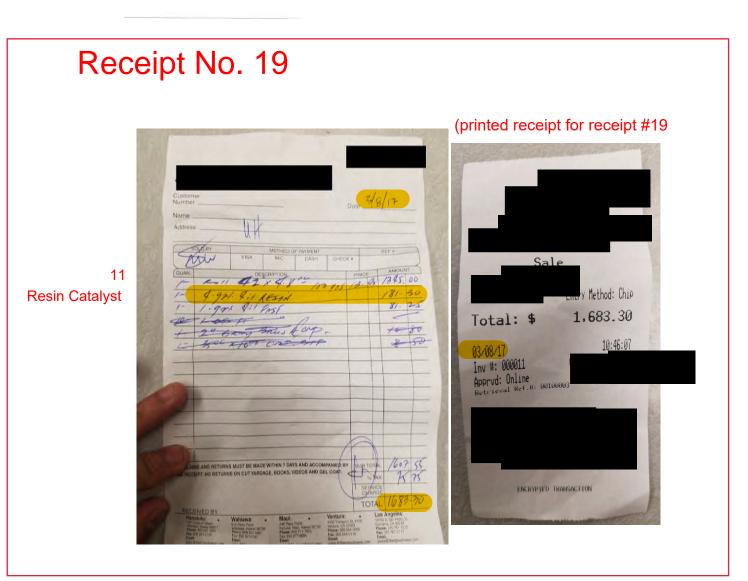












Receipt No. 20

