Manufacturing Synth Carbon Files Roll 51,224.15 1,544.45 2, casing manufacturing to one to a secretary instruction of the secretary in the secretary of the secretary in the secretary of the secretary in the	Subteam	Material	Price	Quantity	Total	Reasoning
Manufacturing Shop Vac \$48.37 \$48.37					4	Carbon fiber is our main material used in the construction of the Iron Bird. We are currently out of
AbsorberCelury Support Selection path was a straight war to concurrently have a god way not be this and an article way to concurrently have a god way not be this and an article way to concurrently have a god way not be this and an article way to suppose and if the too "become contracted way and a read an article way to suppose and if the too "become contracted war and an article way to suppose and the part of the too such state fraging and call that fraging and the such as after that for the fraging geometry and to long and call that fraging and call that fraging and the such as after that for the fraging geometry and to long and call that fraging and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and to long and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that for the fraging geometry and the such as after that the such as after that the such as after the fraging geometry and the such	Manufacturing	50 yrds Carbon Fiber Roll	\$1,424.19	1	\$1,424.19	
Manufacturing gains agains \$50.00 1 \$50.00 1 \$50.00 Colleges require a long to them to the correct colorance, we will need a randomly behaviorable to the colorance of the color	Manufacturing	Shop Vac	\$48.97	1	\$48.97	need a reliable way to clean up after ourselves. We dont currently have a god way to do this and a
Manufacturing aglaw		· ·				
Manufacturing Algory Soon 1 Soon 20 1 Soon 20 1 Soon 20 Soon 20 1 Soon 20 Soon	Manufacturing	sander	\$59.00	1	\$59.00	
Naturalizations agow 5900 1 5900 2 5900 2 5900 3 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5900 5 5 5 5 5 5 5 5 5						
Manufacturing Selfy Fear Marker from White Stadu Brief (25 Pacif) Water Fear Marker from White Stadu Brief (25 Pacif) Water Fear Marker from White Stadu Brief (25 Pacif) Water Fear Marker from White Stadu Brief (25 Pacif) Water Fear Marker from White Stadu Brief (25 Pacif) Water Fear Marker from White Stadu Brief (25 Pacif) Water Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from White Stadu Brief (25 Pacif) Water from Province Fear Marker from P	Manufacturing	JigSaw	\$99.00	1	\$99.00	
The Text Maker Foam White Substant with resistant resistant resistant resistant sequence of the Samuel Samu	Manufacturing					, :
Manufacturing South Briefold 129 reach Water resistant 930.0 1 5000 0 1 500	Manufacturing		\$40.04	3	\$120.12	Foam molds used to create the structure and the molds for the carbon fiber layup
Manufacturing 12 0 Op 4.12 D x 40" s 5.8 50 4 5.34 50 Carbon filter trube for interfor weigh and tail supports Manufacturing 125 CO 3.60 (D x 40" s 5.8 30 4 5.35 50 Carbon filter trube for interfor weigh and tail supports with Manufacturing 7 will Square Tube 5.40.7 1 5.40	Manufacturing	30x40 BiFold (25 Pack) Water	\$99.00	1	\$99.00	
Medicetticung in 250 to 3-60 t	_					
Manufacturing 125 DOX DOX DOX DOX AND SASING SASING SASING SASING Cardion fiber to the for interior wing and tail supports carbon fiber following part Tube SASING	Manufacturing		\$8.59	4	\$34.36	Carbon fiber tube for interior wing and tail supports
Manufacturing New Season Tube \$49.75 1 \$ 98.95 \$1 Boxp., connecting fusible pet to all surfaces on UAS Manufacturing (SN Messks) \$24.97 2 \$9.94 \$8.95 mask used for when cutting into normal market is like fiber glass for safety the Central lova Aeromodeles for the central lova Aeromodeles from the central lo	Manufacturing	125 OD x .060 ID x 40"	\$6.39	4	\$25.56	Carbon fiber tube for interior wing and tail supports
Sudent Membership to the Central lows Aeromodelers and Control all courts of the Central lows Aeromodelers and Control and Con	Manufacturing	1	\$49.75	1	\$49.75	Tail boom, connecting fuaelage to tail surfaces on UAS
Student Membership to the Correlations Aemonders radio-controlled aircraft flying frest redic - query of Model Academy of Model Academy of Model Red - 1 year 535.00 1 5	Manufacturing	N95 Masks	\$24.97	2	\$49.94	N95 masks used for when cutting into noxious materials like fiber glass for safety
Aeronautics (AMA) Membership - 1 year Folding Aircraft Propeller 12x10 Folding Aircraft Propeller Folding Aircraft Propelle	Flight Test	Central Iowa Aeromodelers radio-controlled aircraft flying	\$35.00	1	\$35.00	has a 350ft long petromat runway and grass suitable for taking off and landing our UAS. This field is the best location locally, where the team can fly our UAS with little to no risk of damage to the aircraft due to the takeoff/landing location. To gain use of this field, our team pilot must be a
Folding Aircraft Propeller - 13x10	Flight Test	Aeronautics (AMA)	\$75.00	1	\$75.00	
Filight Test 13x10 S1x00 S	Flight Test	Folding Aircraft Propeller -		2		A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller,
Flight Test	Flight Test		\$14.00	2	\$28.00	
Flight Test 14x12 S15.00 2 S30.00 motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or mo	Flight Test		\$15.00	2	\$30.00	
Flight Test propeller S18.00 2 S36.00 motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, propeller propeller s25.00 2 S50.00 motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. Structures Audio cable (2 pack) S8.07 1 S8.07 purpose of training new UAS plotes. Structures Tail Wheel Bracket S3.39 1 S3.39 Bracket for connecting tail wheel to UAS. Structures Landing Gear Tries S9.49 2 S18.90 Main Landing gear tries for the UAS. Structures Landing Gear Bracket S19.75 1 S7.49 Alse shafts for landing gear wheels of the UAS. Structures Nose gear bracket S6.99 2 S13.98 Nose landing gear bracket for UAS. Structures Nose gear bracket S6.99 2 S13.98 Alwinium trape is ideal for reinforcing control surface hinges and making patches. Led Supplies Gorilla Clear packing tape S8.99 1 S3.9.9 Alwinium trape is ideal for reinforcing control surface hinges, and general use Alder en Leddar Che Optica Rangefinder (3.3 V UART) S125.00 1 S39.90 1 S39.90 When used it distance of the UAS for the pixhawk to use the autoland feature. PRT-10376 (Leddar One Connector) S1.95 2 S3.90 1 S39.90 When used it and admining to a find made with a distance sensor, the PX4flow can detect velocity, which is nessesary of the implementing optical flow feature.	Flight Test		\$15.00	2	\$30.00	
Flight Test propeller 950.00 2 550.00 motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to allow or UAS to allow on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its pr	Flight Test		\$18.00	2	\$36.00	
Flight Test propeller \$9.00 2 \$18.00 motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. A folding aircraft propeller will allow our UAS to land on its belly without damaging its propeller, motor, or motor mount. Standard 3.5mm audio cable will enable us to connect two aircraft transmitters together for the purpose of training new UAS pilots. Structures Tail Wheel Bracket \$3.39 1 \$3.39 Bracket for connecting tail wheel to UAS. Structures Landing Gear Tires \$9.49 2 \$18.98 Main Landing gear tires for the UAS. Structures Axle Shaft \$7.49 1 \$7.49 Main Landing gear three for UAS. Structures Landing Gear Bracket \$19.75 1 \$19.75 Main landing gear bracket for UAS. Structures Nose gear bracket \$9.99 2 \$13.98 Main Landing gear bracket for UAS. Structures Adhesive Aluminium Ducting Tape \$8.99 1 \$8.99 1 \$8.99 Aluminum tape is ideal for reinforcing control surface hinges and making patches. Lab Supplies Gorilla Clear packing tape \$6.77 2 \$13.54 Clear packing tape for patching foam surfaces, reinforcing control surface hinges, and general use Benewake TFMINI-S Micro UIDAR Module (UART / IZC) \$39.90 1 \$39.90 Aluminum tape is ideal for reinforcing control surface hinges, and general use LeddarTech LeddarOne Optical Rangefinder (3.3 VUART) \$125.00 1 \$39.90 Aluminum tape is not as important to have if we have the benewake TFmini, but it Rangefinder (3.3 VUART) \$125.00 1 \$39.90 Aluminum tape is not as important to have if we have the benewake TFmini, but it Rangefinder (3.3 VUART) \$125.00 1 \$100.00 Each of the UAS for the pixhawk to use the autoland feature. PRT-10376 (LeddarOne Contical Rangefinder (3.3 VUART) \$1.95 0	Flight Test		\$25.00	2	\$50.00	
Flight Test 47/8 Yoke for folding propeller \$10.00 2 \$20.00 motor, or motor mount. Standard 3.5mm audio cable will enable us to connect two aircraft transmitters together for the purpose of training new UAS pilots. Structures Tail Wheel Bracket 53.39 1 \$3.39 Bracket for connecting tail wheel to UAS. Structures Landing Gear Tires \$9.49 2 \$18.98 Main Landing gear tires for the UAS. Structures Landing Gear Bracket \$19.75 1 \$7.49 Avies hafts for landing gear wheels of the UAS. Structures Nose gear bracket \$6.99 2 \$13.98 Nose landing gear bracket for UAS. Structures Nose gear bracket \$6.99 2 \$13.98 Nose landing gear bracket for UAS. Adhesive Aluminium Ducting Tape S8.99 1 \$8.99 1 \$8.99 1 \$8.99 Aluminum tape is ideal for reinforcing control surface hinges and making patches. Benewake TFMINI-S Micro LIDAR Module (UART / I2C) \$39.90 1 \$3	Flight Test		\$9.00	2	\$18.00	
Flight Test Audio cable (2 pack) \$8.07 1 \$8.07 purpose of training new UAS pilots. Structures Tail Wheel Bracket \$3.39 1 \$3.39 Fracket for connecting tail wheel to UAS. Structures Landing Gear Tires \$9.49 2 \$18.98 Main Landing gear tires for the UAS. Structures Axle Shaft \$7.49 1 \$7.49 Axle shafts for landing gear wheels of the UAS. Structures Landing Gear Bracket \$19.75 1 \$1.97.5 Main landing gear bracket for UAS. Structures Nose gear bracket \$6.99 2 \$13.98 Nose landing gear bracket for UAS. Adhesive Aluminum Ducting Tape \$8.99 1 \$8.99 1 \$8.99 Aluminum tape is ideal for reinforcing control surface hinges and making patches. Electronics Benewake TFMINI-S Micro LIDAR Module (UART / IZC) \$39.90 1 \$39.90 1 \$39.90 Aldar sensor is needed to detect the vertical distance of the UAS for the pixhawk to use the autoland feature. This one is not as important to have if we have the benewake TFmini, but it received from the pin header on the LeddarOne optical connector) \$1.95 2 \$3.90 Years of the implementing optical flow feature Wafe LoddarOne Connector) \$1.95 2 \$3.90 Years of the implementing optical flow feature Wafe LoddarOne optical cannectors and in the pin header on the LeddarOne optical rangefinder. Quantity 2 for redundancy When used in tandem with a distance sensor, the PX4flow can detect velocity, which is nessesary for the implementing optical flow feature.	Flight Test	47/8 Yoke for folding propeller	\$10.00	2	\$20.00	
Structures Tail Wheel Bracket \$3.39 1 \$3.39 1 \$3.39 Bracket for connecting tail wheel to UAS. Structures Landing Gear Tires \$9.49 2 \$18.98 Main Landing gear tires for the UAS. Structures Landing Gear Bracket \$9.49 1 \$7.49 \$1 \$7.49 Axle shafts for landing gear wheels of the UAS. Structures Landing Gear Bracket \$19.75 1 \$1.975 Main landing gear bracket for UAS. Structures Nose gear bracket \$6.99 2 \$13.98 Nose landing gear bracket for UAS. Adhesive Aluminium Ducting Tape \$8.99 1 \$8.99 Aluminum tape is ideal for reinforcing control surface hinges and making patches. Lab Supplies Gorilla Clear packing tape \$6.77 2 \$13.54 Clear packing tape for patching foam surfaces, reinforcing control surface hinges, and general use Benewake TFMINI-S Micro LIDAR Module (UART / I2C) \$39.90 1 \$39.90 4 Alidar sensor is needed to detect the vertical distance of the UAS for the pixhawk to use the autoland feature. LeddarTech LeddarOne Optical Rangefinder (3.3V UART) \$125.00 1 \$39.90 53.90 Face Connector) \$1.95 2 \$3.90 Face Connector Standard 6 pin female connector to interface with the pin header on the LeddarOne optical rangefinder. Quantity 2 for redundancy When used in tandem with a distance sensor, the PX4flow can detect velocity, which is nessesary for the implementing optical flow feature.	Flight Test	Audio cable (2 pack)	לפ חד	1	לפ חס	_
Structures Tail Wheel \$3.09 1 \$3.09 Tail wheel for UAS. Structures Landing Gear Tires \$9.49 2 \$18.98 Main Landing gear tires for the UAS. Structures Axle Shaft \$7.49 1 \$7.49 Axle shafts for landing gear wheels of the UAS. Structures Landing Gear Bracket \$19.75 1 \$19.75 Main landing gear bracket for UAS. Structures Nose gear bracket \$6.99 2 \$13.98 Nose landing gear bracket for UAS. Adhesive Aluminium Ducting Tape \$8.99 1 \$8.99 Aluminium tape is ideal for reinforcing control surface hinges and making patches. Lab Supplies Gorilla Clear packing tape \$6.77 2 \$13.54 Clear packing tape for patching foam surfaces, reinforcing control surface hinges, and general use Benewake TFMINI-5 Micro LIDAR Module (UART / IZC) \$39.90 1 \$39.90 1 \$39.90 Electronics Rangefinder (3.3V UART) \$125.00 1 \$125.00 1 \$125.00 \$						
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Benewake TFMINI-5 Micro LIDAR Module (UART / I2C) \$39.90 1 \$39.90 1 \$39.90 1 \$39.90 A lidar sensor is needed to detect the vertical distance of the UAS for the pixhawk to use the autoland feature A lidar sensor is needed to detect the vertical distance of the UAS for the pixhawk to use the autoland feature. This one is not as important to have if we have the benewake TFmini, but it would be useful to test the effectivness of different lidar sensors PRT-10376 (LeddarOne connector) \$1.95 2 \$3.90 Electronics PX4FLOW smart camera \$105.00 1	Lab Supplies	Adhesive Aluminium Ducting	\$8.99	1		
Electronics LIDAR Module (UART / I2C) \$39.90 1 \$39.90 autoland feature LeddarTech LeddarOne Optical Rangefinder (3.3V UART) \$125.00 1 \$125.00 would be useful to test the effectivness of different lidar sensors PRT-10376 (LeddarOne connector) \$1.95 2 \$3.90 Standard 6 pin female connector to interface with the pin header on the LeddarOne optical rangefinder. Quantity 2 for redundancy When used in tandem with a distance sensor, the PX4flow can detect velocity, which is nessesary for the implementing optical flow feature	Lab Supplies	Gorilla Clear packing tape	\$6.77	2	\$13.54	Clear packing tape for patching foam surfaces, reinforcing control surface hinges, and general use
LeddarTech LeddarOne Optical Rangefinder (3.3V UART) \$125.00 1 \$125.00 1 \$125.00 would be useful to test the effectivness of different lidar sensors PRT-10376 (LeddarOne connector) \$1.95 2 \$3.90 Family 2 for redundancy Electronics PX4FLOW smart camera \$105.00 1 \$105.00 1 \$105.00 for the implementing optical flow feature	Electronics		\$39.90	1	\$39.90	
Electronics connector) \$1.95 2 \$3.90 rangefinder. Quantity 2 for redundancy When used in tandem with a distance sensor, the PX4flow can detect velocity, which is nessesary for the implementing optical flow feature	Electronics		\$125.00	1	\$125.00	autoland feature. This one is not as important to have if we have the benewake TFmini, but it
Electronics PX4FLOW smart camera \$105.00 1 \$105.00 for the implementing optical flow feature	Electronics	,	\$1.95	2	\$3.90	
Electronics Lidar Cable \$5.50 1 \$5.50 Used to interface our lidar sensor with flight computer	Electronics	PX4FLOW smart camera	\$105.00	1	\$105.00	
	Electronics	Lidar Cable	\$5.50	1	\$5.50	Used to interface our lidar sensor with flight computer