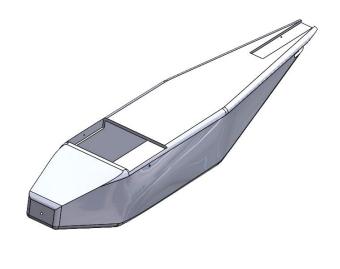
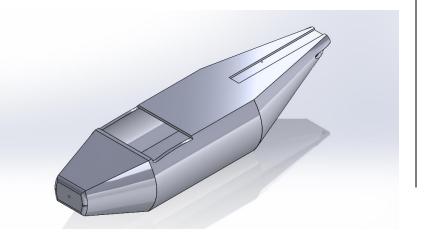
SAE MICRO AERO HARDWARE UPDATE

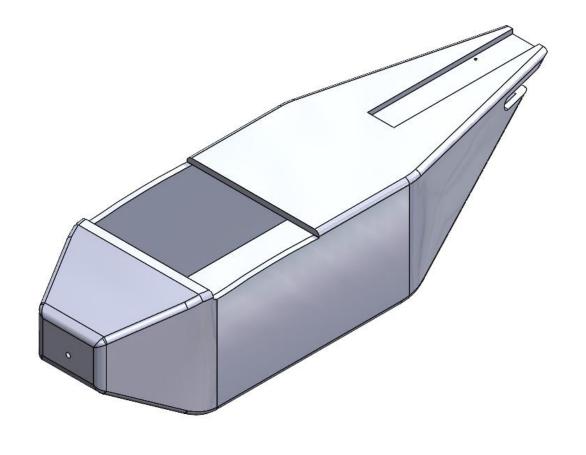
By: Ryan Downey, Katrina Kevorkian, Spencer Makar, Hector Medrano, Connor Nolan, Ethan Shoemaker

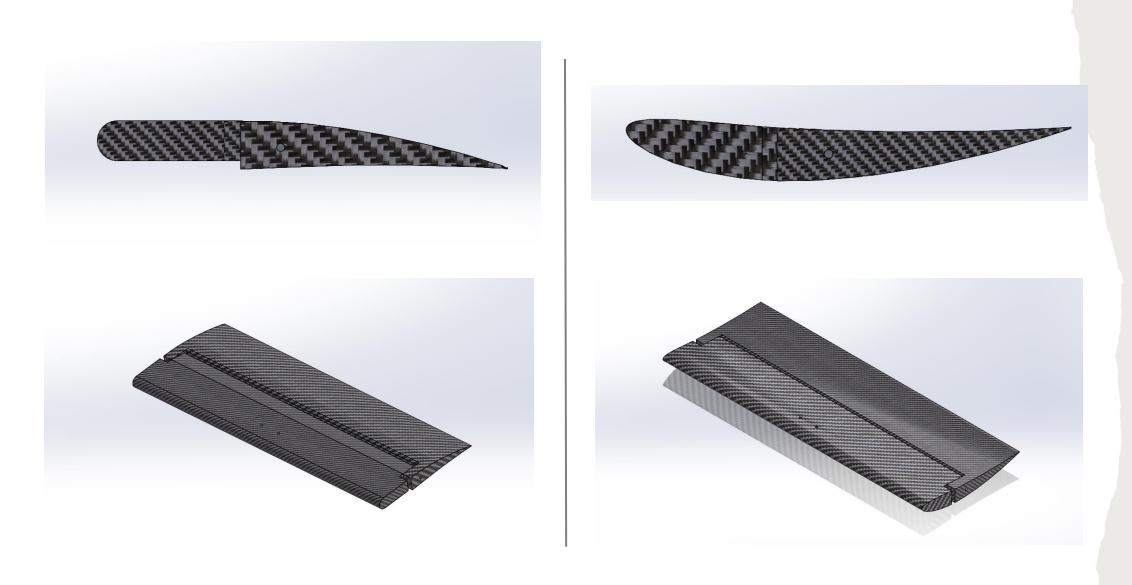


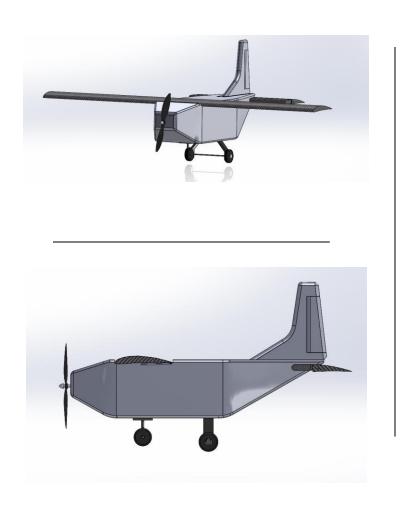
CAD

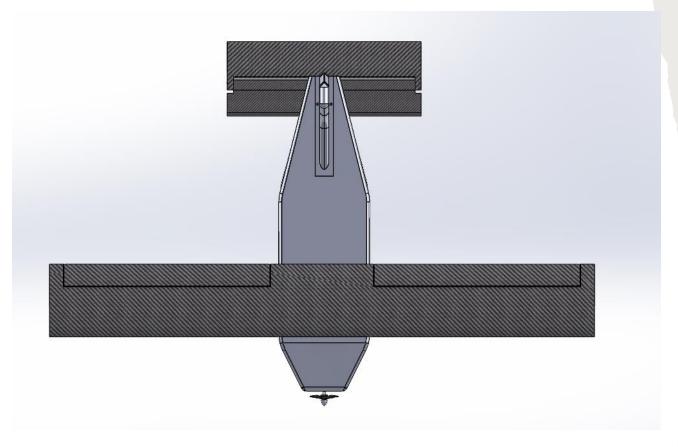






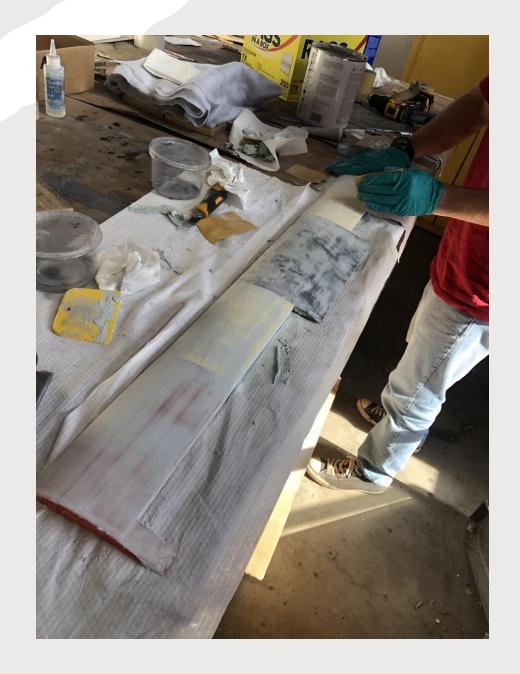






WINGS







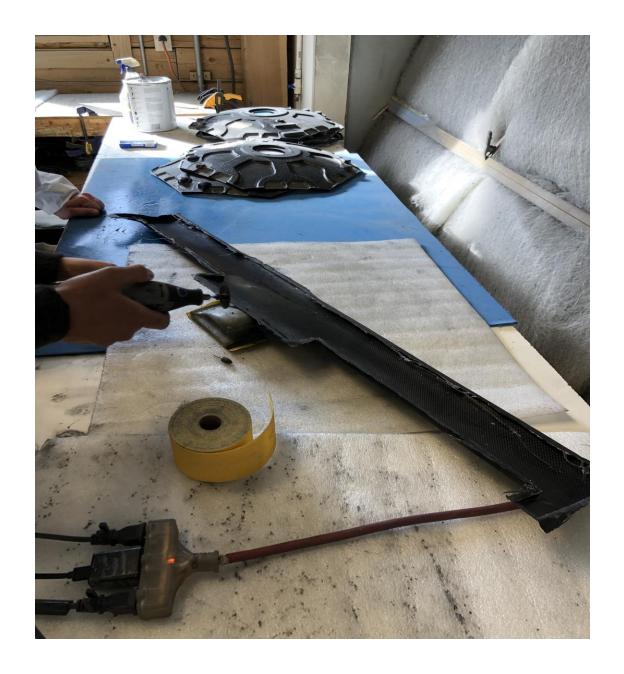






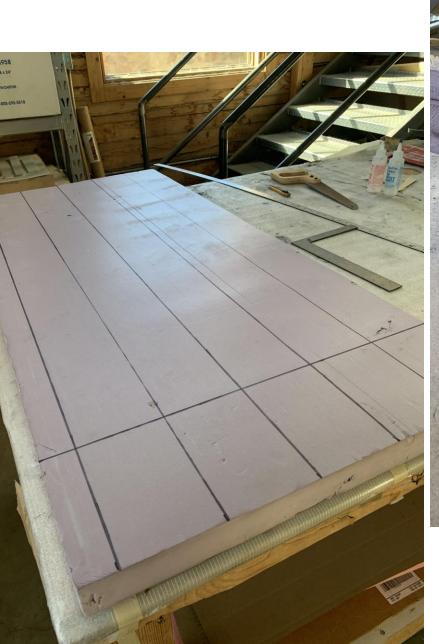




















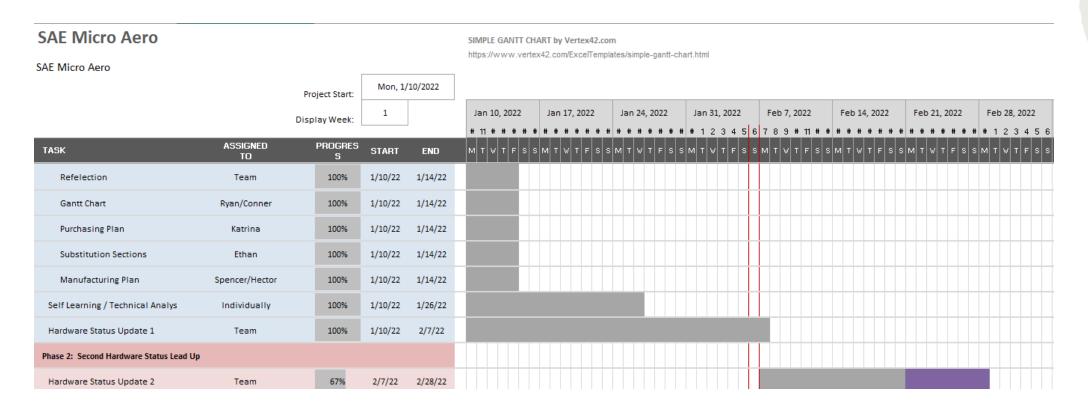




NEXT STEPS

- Fuselage
 - o Add horizontal and vertical stabilizers
 - O Skin mold with carbon fiber
 - o Remove foam
 - o Drill holes for hardware
- Install electronics
- Connect all control surfaces to servo motors
- Fly
- Iterate on design

GANTT CHART UPDATES



- Manufacturing is underway, assembly starting soon
- Working towards next hardware status update
- Testing is expected to start as soon as possible

BILL OF MATERIALS

SAE Aero Capstone Project

33	e columns in table will show if actual went ov	_		_					Itemized	(.,
Area	▼ Items	▼ Primary Vendor	▼ Manufacturer	▼ Lead Time	~	Quantity -	Make/Buy 🚅	Part Status 🔻	Price Per Parl 🕶	Total Price
Electronics	Adaptors	Amazon	Share Goo Store	N/A		1	Buy	Assembled	\$9.42	\$9.42
Electronics	1000mAh Battery	Hobby King	Hobby King	N/A		3	Buy	Assembled	\$17.01	\$51.03
Electronics	Connectors	Hobby King	Hobby King	N/A		1	Buy	Assembled	\$3.03	\$3.03
Electronics	SAE Competition Power Limiter	SAE	SAE	N/A		1	Buy	Assembled	\$83.00	\$83.00
Electronics	Servos	Hobby King	Hobby King	N/A		5	Buy	Assembled	\$3.49	\$17.45
Electronics	Speed Controller	Hobby King	Hobby King	N/A		1	Buy	Assembled	\$21.99	\$21.99
Electronics	Wires	Amazon	National Hardware Store	N/A		1	Buy	Assembled	\$9.89	\$9.89
Electronics	1500mAh Battery	Hobby King	Hobby King	3 Weeks		3	Buy	02.25.2022.	\$27.78	\$83.34
Powerplant	9x4.7 V3 Propeller	ACP	ACP	3 Weeks		4	Buy	On Order	\$2.84	\$11.36
Powerplant	9x4.7 V3 Propeller	ACP	ACP	N/A		1	Buy	Assembled	\$2.84	\$2.84
Wings	Aileron	MakersLab	MakersLab	N/A		2	Buy	Being Manufactured	Donated	Donated
Fuselage	Fuselage	Novakinetics	Team	2 Weeks		1	Make	Being Manufactured	Donated	Donated
Tail	Elevator	Novakinetics	Team	1 Week		1	Make	In House	Donated	Donated
Tail	Horizontal Stabilizer	Novakinetics	Team	2 Weeks		1	Make	In House	Donated	Donated
Tail	Rudder	Novakinetics	Team	1 Week		1	Make	In House	Donated	Donated
Tail	Vertical Stabilizer	Novakinetics	Team	2 Weeks		1	Make	In House	Donated	Donated
Wings	Balsa Wood Ribs	NAU IDEA Lab	Team	1 Day		1	Make	Assembled	Donated	Donated
Wings	Airfoil	Novakinetics	Team	2 Weeks		1	Make	Assembled	Donated	Donated
Landing Gear	Front Landing Gear Pin	N/A	N/A	N/A		1	N/A	Assembled	Donated	Donated
Landing Gear	Front Landing Gear Support	N/A	N/A	N/A		1	N/A	Assembled	Donated	Donated
Landing Gear	Front Support	N/A	N/A	N/A		1	N/A	Assembled	Donated	Donated
Landing Gear	Wheel	N/A	N/A	N/A		2	N/A	Assembled	Donated	Donated
Powerplant	Propeller Assembly Rod	N/A	N/A	N/A		1	N/A	N/A	N/A	N/A
Powerplant	Propeller Nozzle	N/A	N/A	N/A		1	N/A	N/A	N/A	N/A
Subtotal									\$181.29	\$293.35
Unexpected Costs (add 5% estimated)									\$9.06	\$14.67
Total costs									\$190.35	\$308.02