

## Summary and Goals

I am a hardworking and strongly self-motivated graduating senior engineering student seeking an engineering design position in which I can work with a team, and put my plethora of skills to use.

## Education

### LOUISIANA STATE UNIVERSITY (LSU) 2021-2025

- 4<sup>th</sup> Year Senior
- GPA: 3.40 (as of: end of Spring 2024)
- Major: Mechanical Engineering
- Minor: Aerospace Engineering
- On track to graduate in 4 years, versus the common 5 year route.
- Formula-SAE contributor

### SOUTH TERREBONNE HIGH SCHOOL | 2017-20210

- Graduated third in my class with a 4.3 GPA
- Student council member and representative
- Drama/Theatre club lighting and audio manager
- Yearbook Editor-in-Chief for 2 years

## Work Experience

### SYNCOM SPACE SERVICES

#### NASA MICHLOUD ASSEMBLY FACILITY

ENGINEERING INTERN - 3 MONTHS, SUMMER OF 2024

- Worked with the facility maintenance engineering team to maintain and improve NASA's Michoud Assembly Facility, (MAF). This included detailed facility condition assessments, writing Excel macros for my coworkers, dataset upkeep, report generation, waterjet repair, storm pump maintenance, and many other random issues across the large site.
- Independently researched non-destructive testing machines for procurement, including getting quotes from domestic and international companies, compiling my research into an easy to read spreadsheet, and relaying my research to my supervisors.



### VALLOUREC TUBE-ALLOY - HOUMA, LOUISIANA

ENGINEERING INTERN - 3 MONTHS, SUMMER OF 2023

- Singlehandedly designed a pipe tip phosphator system, improving an integral part of oilfield piping manufacturing, both in safety and convenience. Construction of the design has been completed.
- I used Python programming in Fusion 360 to assist in the design and creation of numerous part designs with varied sizes.
- My supervisors loved my work, and I loved doing it!
- "It works perfectly" - Supervisor Jody Hebert



### ALPINE SLIDE - BIG BEAR LAKE CALIFORNIA

RIDE OPERATOR - 3 MONTHS, SUMMER OF 2022

### HEBERT'S MARINE AND HARDWARE - HOUMA, LOUISIANA

CASHIER, STOCKER, COMPUTER TECHNICIAN

## Personal Traits/Facts

- Committed to exceptional safety
- Fast learner
- Team player
- Determined to succeed, scrappy
- Great at time prioritization
- Forward thinking
- Inventive problem solver
- Very friendly & social
- Comfortable around heavy industry & machinery

## Skills:

### Office:

- Excel, Word, PowerPoint
- Microsoft Teams

### CAD Software & Graphics:

- Solidworks
- Autodesk Fusion 360 (veteran user)
- Blender (skilled)
- Adobe Photoshop (veteran user)
- Adobe Illustrator

### Other Software:

- Autodesk CFD
- FluidX3D Transient CFD Simulation
- Autodesk Eagle PCB design

### Coding Languages:

- C#: GUI applications
- C++: microcontrollers (high skill)
- Python
- MATLAB (high skill)
- Microsoft Visual Studio

## Areas of Experience:

### Mechanical & Aerospace Engineering

- Automotive Restoration & Repair
- 3D Automotive Design
- Remotely controlled ultralight airplane design and construction

### Electrical Engineering:

- Schematic and board design
- Circuit troubleshooting
- 3 phase motor control design

### 3D Printing

- Custom 3D printer design
- Effective model slicing

### Leadership

- Led numerous teams throughout my time in high school, and college

### Industry and Economy

- Experience working with lathe, mill, hand tools, etc
- Experience with purchase orders, cost saving, and large part assemblies

# Portfolio Highlights



## 1993 MITSUBISHI 3000GT VR4 Long Term Personal Project Car

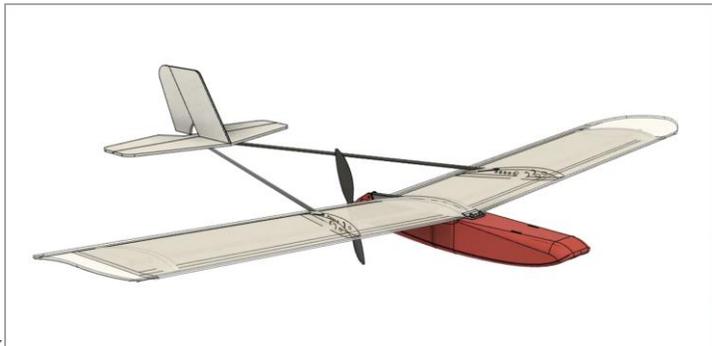
My

Well known for being one of the most advanced cars of the early 90s, this car is something I'm quite proud of. It's taken actual blood, sweat, and tears from me over the 4 years I've owned it, but I can't help but love it; It's mine, and I made it so, including an engine pull, suspension swap, and more. Also, the concept car below is based on it.

## 3D MODELED CONCEPT CAR RENDERS - FUSION 360 + BLENDER



## REMOTELY CONTROLLED ULTRALIGHT AIRPLANE, 5FT WINGSPAN



W

Design (Left), Built Plane (Right)

## ACTIVE SUSPENSION COMPUTER QUADRUPLE 3-PHASE MOTOR DRIVER



## PIPE PHOSPHATER - FOR VALLOUREC

